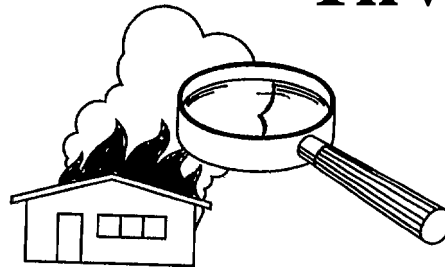
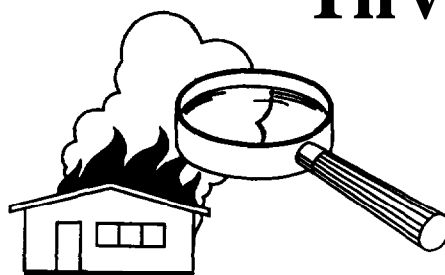


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Fire/Arson Investigation Training Resource Catalog

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Fire /Arson Investigation Training Resource Catalog

Creation of this catalog was funded by a grant from the United States Fire Administration to the International Association of Arson Investigators. The purpose of the grant was to create a fire/arson investigation training resource, a document which investigators could consult for information relevant to professional education and improvement. The catalog consists of four sections. Part One contains a state-by-state listing of training opportunities (courses, seminars, etc.) from throughout the United States. Within each state, courses are listed alphabetically by name of the sponsoring organization or school. To the extent possible, course descriptions include objectives, a listing of topics, credits or certification awarded, expected outcome for the student, and schedule and cost information. The second section of the catalog indexes the training material by primary topic (for example, fire scene photography, advanced fire/arson investigation, arson for prosecutors, etc.). Part Three details certification requirements and procedures for national level certification programs in fire investigation and related fields. This section also contains the accreditation policies of the National Board on Fire Service Professional Qualifications and the International Fire Service Accreditation Congress at Oklahoma State University. The final section of the catalog is a comprehensive bibliography of fire/arson investigation literature, compiled from material provided by the National Fire Academy's Learning Resource Center, FIREDOC: Fire Research Information Services, National Institute of Standards and Technology, the National Criminal Justice Reference Service, the New York State Academy of Fire Science Library and NFPA's Charles S. Morgan Technical Library. It is our hope that this catalog will prove to be a valuable resource to all involved in the fire/arson investigation field.

Special thanks to Tamara Smith for data entry and research assistance.

CONTENTS

Part 1 Fire/Arson Investigation Training Opportunities in the United States	1
Alabama	1
Alaska	3
Arizona	3
Arkansas	6
California	6
Colorado	17
Connecticut	19
Delaware	22
Florida	23
Georgia	29
Idaho	31
Illinois	32
Indiana	39
Iowa	42
Kansas	43
Kentucky	47
Louisiana	49
Maine	50
Maryland	50
Massachusetts	53
Michigan	54
Minnesota	58
Mississippi	61
Missouri	61
Montana	63
Nebraska	64
Nevada	65
New Hampshire	66
New Jersey	67
New Mexico	69
New York	71
North Carolina	76
North Dakota	79
Ohio	80
Oklahoma	85
Oregon	87
Pennsylvania	89
Rhode Island	91
South Carolina	92
South Dakota	92
Tennessee	93
Texas	94
Utah	100
Vermont	101
Virginia	101
Washington	105
West Virginia	107
Wisconsin	107
Wyoming	112
Addendum	113

Part 2 Topical Index of Fire/Arson Investigation Training Opportunities	115
Accelerent Detection	115
Advanced Fire/Arson Investigation (courses)	115
Advanced Fire/Arson Investigation (seminars)	116
Arson Awareness	116
Arson Fraud, Arson for Profit, Insurance Issues	116
Arson Information Management	117
Arson Investigation for Law Enforcement	117
Arson for Prosecutors	118
Arson Unit Management	118
B.S. in Arson Investigation	118
Basic Fire/Arson Investigation Courses	118
Behavioral Issues	125
Cause and Origin	125
Certificate in Arson Investigation	125
Electrical	125
Evidence	126
Explosives	126
Failure Analysis	127
Fatal Fires	127
Fire/Arson Investigation (general courses)	127
Fire/Arson Investigation (general seminars)	136
Fire Behavior, Chemistry	140
Fire Scene Photography	140
House Burns	140
Interviewing	141
Juvenile Firesetting	141
K-9 Detection	141
Laboratory Analysis	141
Legal Issues	142
Prevention and Investigation	142
Related Sciences	142
Ritualistic Rites and Arson	142
Training Materials Development	142
Two-Year Degree in Fire Investigation	143
Vehicle Fires	143
Wildland Fires	143
 Part 3 National Certification Programs in Fire Investigation and Related Fields, and Fire Service Accreditation Programs	 145
International Association of Arson Investigators Certified Fire Investigator Program	145
National Association of Fire Investigators Certified Fire and Explosion Investigator Program	147
National Association of Fire Investigators Certified Fire Investigation Instructor Program	150
Evidence Photographers International Council Certification Program	151
American Board of Criminalistics Certification Program	153
National Board on Fire Service Professional Qualifications	154
International Fire Service Accreditation Congress	156
 Part 4 Bibliography of Fire/Arson Investigation Literature Available in the United States	 162
Books	162
Journals	178
Reports	224
Proceedings	244
Chapters	245

Part 1 Fire/Arson Investigation Training Opportunities in the United States

ALABAMA

Alabama Arson Prevention Task Force
135 South Union Street, Room 140
Montgomery, Alabama 36130-3401
(205) 269-3575

Fire and Arson Investigation

Content varies depending on needs of requesting group; may include anything from basic recognition of arson to fire scene examination, prosecution of case, paper chase, etc.

Length/Schedule: length varies; offered on request
Cost: varies: depends on course

Alabama Association of Arson Investigators
(Alabama Chapter IAAD)
c/o Gerald Bartig, Secretary
11207 Woodcrest Drive Southeast
Huntsville, Alabama 35803
(205) 883-0429

Arson Investigation Seminar

Designed for law enforcement, fire service and insurance personnel

No further information submitted.

Alabama Fire College
2015 McFarland Boulevard, East
Tuscaloosa, Alabama 35405
(205) 759-1508

Fire Investigator

Designed for fire investigators, police officers, company level officers or anyone involved in fire investigations

Identifies the professional levels of competence required in part for Fire Investigator I. Meets selected objectives of the Alabama Fire College and Personnel Standards Commission. Topics include: means of egress; interior finish: search and seizure; point of origin; basic photography; determining the point of entry; incendiary fires; operations of dictation equipment; evidence collection and identification: interview techniques and suspect identification. All qualified students who successfully complete the course receive a certificate of completion. College credit available.

Length/Schedule: 40 hours (5 days): contact Alabama Fire College for details

Cost: registration fee: \$125 for firefighters; \$350 for industrial personnel

Fire/Arson Detection (National Fire Academy course)

Designed for Alabama firefighters

Familiarizes fire service personnel with basic techniques for determining fire cause and recognizing evidence of arson. Topics include determining the point of origin: indications of possible arson; preserving the fire scene and evidence for investigative purposes; the initial steps in an arson investigation.

Length/Schedule: 12 hours
Cost: \$10 registration fee

Alabama Forestry Commission
513 Madison Avenue
Montgomery, Alabama 36130
(205) 240-9300

Wild Fire Cause and Origin Determination (U.S. Forest Service course)

Designed for Forestry Commission and Forest Service personnel: also occasionally attended by forest industry personnel

Length/Schedule: day; offered once a year
Cost: none

Alabama State Fire Marshal Office
Department of Insurance
135 South Union Street, Room 140
Montgomery, Alabama 36130-3401
(205) 269-3575

Basic Arson Awareness

Designed for law enforcement, fire service and insurance personnel

Focuses on basic state law: red flags suggesting criminal fire; evidence preservation; preservation of scenes containing accelerants; detection dog teams. By the end of the course, participant will be knowledgeable about potential indicators of arson at the fire scene, and what steps to take if such indicators are found.

Length/Schedule: length varies from 2 hours on up, depending on needs of requesting agency; offered on request
Cost: none

Chattahoochee Valley State Community College
2602 College Drive
Phenix City, Alabama 36869
(205) 291-4900

Fire Cause Determination

Topics include: burning characteristics of combustibles; interpretation of clues; burn patterns leading to points of origin; identification of incendiary indications: sources of ignition and ignited materials; preservation of fire scene evidence. Five credits; can be applied toward a Fire Science Certificate (50 hours) or Associate of Applied Science (A.A.S.) degree in Fire Science (general education requirements for the degree offered at Southern Union State Junior College). No prerequisites.

Length/Schedule: one quarter; contact Chattahoochee Valley State Community College for details
Cost: in-state tuition: \$137.50; all others are 1.75 times the in-state rate

Community College of the Air Force
Simler Hall, Suite 128
130 West Maxwell Boulevard
Maxwell Air Force Base, Alabama 36112-6613
(205) 953-2794

Fire Investigation Technology

Designed for United States Air Force enlisted personnel

Topics include: fire investigation procedures and requirements; legal aspects of fire investigations; nature and behavior of fire; flammable gases; classification of fire causes; building collapse hazards: incendiary fires; automotive and structural fire investigations; role of firefighters in fire investigations.

Length/Schedule/Cost: applies to USAF enlisted personnel only

Jefferson State Community College
Pinson Valley Parkway at 2601 Carson Road
Birmingham, Alabama 35215-3098
(295) 853-1200

Fire Cause Determination

Covers the burning characteristics of combustibles; interpretation of clues; burn patterns leading to points of

origin; identification of incendiary indications; sources of ignition and ignited materials; preservation of fire scene evidence. Five credits; offered as part of a two year A.A.S. degree program in Fire Science.

Length/Schedule: one quarter; contact Jefferson State Community College for details
Cost: tuition/credit hour: \$22 in-state; \$38 out-of-state

Snead State Junior College
P.O. Drawer D
Boaz, Alabama 35957
(205) 593-5120

Fire Cause Determination

Studies the burning characteristics of combustibles; interpretation of clues; burn patterns leading to points of origin: identification of incendiary indications; sources of ignition and ignited materials; preservation of fire scene evidence. Five credit hours.

Length/Schedule: one quarter; contact Snead State Junior College for details
Cost: fee/credit hour: \$24 in-state; \$37 out-of state

Arson Investigation

Introduces arson and incendiarism; arson laws; methods of determining fire causes: evidence; interviewing and detaining witnesses; procedures in handling juveniles: court procedures. Five credit hours. No prerequisites.

Length/Schedule: one quarter; contact Snead State Junior College for details
Cost: fee/credit hour: \$24 in-state; \$37 out-of state

Wallace Community College, Selma
P.O. Drawer 1049
3000 Range Line Road
Selma, Alabama 36702-1049
(205) 875-2634

Arson Investigation

An introduction to arson and incendiarism; arson laws; methods of determining fire causes; evidence; interviewing and detaining witnesses; procedures in handling juveniles: court procedures. Five credit hours.

Length/Schedule: one quarter: contact Wallace Community College for details
Cost: tuition: \$112.50 in-state; all others, 1.75 times the in-state rate

**Wallace State College, Hanceville
Hanceville, Alabama 35077-9080
(205) 3526403**

Fire Cause Determination

Topics include: burning characteristics of combustibles; interpretation of clues: burn patterns leading to points of origin; identification of incendiary indications; sources of ignition and ignited materials; preservation of fire scene evidence. Five hours of credit; can be applied toward A.A.S. degree in Fire Science.

Length/Schedule: one quarter; contact Wallace State College for details
Cost: \$22/credit hour in-state; all others, 1.75 times the in-state rate

Arson Investigation

An introduction to arson and incendiarism: arson laws: methods of determining fire causes; evidence; interviewing and detaining witnesses; procedures in handling juveniles; court procedures. Five hours of credit; can be applied toward A.A.S. degree in Fire Science.

Length/Schedule: one quarter; contact Wallace State College for details
Cost: \$22/credit hour in-state; all others, 1.75 times the in-state rate

ALASKA

**Alaska Association of Fire and Arson Investigators
(Alaska Chapter IAAI)
c/o Michael Donovan, President
12408 Winter Park Circle
Eagle River, Alaska 99577
(907) 852-6111**

Annual Fire and Arson Investigation Seminar Additional Seminars

Designed for law enforcement, fire service and insurance personnel; applicants screened for need to know

Objectives include training persons to recognize cause and origin, and promoting investigation of fire cause, prosecution of arson, and cooperation among agencies. Topics vary from year to year; examples: basic fire investigation; advanced fire investigation; bombs and explosives: starting devices/electrical fires. After taking basic seminars, participants will be able to recognize cause and origin, gather evidence, and work with others

to develop and prosecute arson cases. Participants in advanced seminars will develop and maintain competence in specialty areas. AAFAI certificate of attendance awarded; college credit available for seminar attendance.

Length/schedule: 3-5 days: annual seminar usually in May (1993 annual seminar will be in Kenai, AK); other classes and presentations as requested
Cost: contact Alaska Chapter IAAI

ARIZONA

**Arizona Chapter IAAI
do Eric Cooper
Pima County Sheriff's Department, Arson Detail
1750 East Benson Highway
Tucson, Arizona 85714
(602) 7414831**

Fire/Arson Investigation I, II, III, IV

Four part series. The training includes both classroom and field training. Tested.

Length/Schedule: each section is five days long; two sections offered each year
Cost: contact Arizona IAAI

Advanced Arson Seminar

Length/Schedule: 2 days: offered annually
Cost: contact Arizona IAAI

The Arizona Chapter also offers specialty seminars (e.g. Gas/Electrical, Wildland Fire) and regional seminars, which generally last 2-3 days. Contact Arizona Chapter IAAI for schedule and cost information.

**Arizona Fire and Burn Educators Association
State Juvenile Firesetter Task Force
c/o Deanna Lewis
Tucson Fire Department
P.O. Box 27210
Tucson, Arizona 85726-7210
(602) 791-4502**

Annual Juvenile Firesetters Conference

No further information submitted.

Length/Schedule: 1 day; contact Arizona Fire and Burn Educators Association for details
Cost: contact Arizona Fire and Burn Educators Association

Arizona State Fire Marshal Office
Department of Building and Fire Safety
1540 West Van Buren
Phoenix, Arizona 85007-2414
(692) 255-4072

Fire/Arson Detection (National Fire Academy Course)

Designed for law enforcement and fire service personnel

Details the basic techniques of determining fire origin and cause, and recognizing primary clues or evidence of arson. May be used as an introduction for firefighters or as a review for officers. Topics include: firesetter motivation; determining the point of fire origin and probable cause; legal and practical considerations in preserving the fire scene and evidence of arson; the fire officer's role in vehicle or fatal fire investigations. NFA certificate awarded. No prerequisites.

Length/Schedule: 2 days; offered on request
Cost: contact Arizona State Fire Marshal Office

Cochise College
901 North Colombo
Sierra Vista, Arizona 85655
(602) 458.7110

Fire Investigation

Prerequisite: current employment with a fire department or permission of instructor

An introduction to fire cause determination (accidental, suspicious, and incendiary), with related procedures for handling each situation. Three credit hours.

Length/Schedule: one semester; contact Cochise College for details
Cost: \$10 registration fee; \$69 in-state tuition; \$105 out-of-state

Mohave Community College
1971 Jagerson Avenue
Kingman, Arizona 86401
(602) 757-0847

Fire Investigation

Topics: methods of determining point of fire origin, path of fire travel, and fire causes; recognizing and preserving evidence: interviewing witnesses; arson laws and types of arson fires; court testimony; reports and records. Three hours credit; offered as part of an A.A.S. degree in Fire Science.

Length/Schedule: one semester
Cost: \$80 in-state; \$90 out-of-state

Northland Pioneer College
P.O. Box 610
Holbrook, Arizona 86025
(602) 524-6111

Arson Investigation I

Designed for firefighters only
Prerequisite: Fire Operations I

Stresses fire behavior; building construction; determining origin of fire; accidental fires; incendiary fires; insurance basics; motives; photography: fire scene sketching; fire investigation; rural and wildland fires; vehicle fires; fatal fires. Three credits.

Length/Schedule: one semester: contact Northland Pioneer College for details
Cost: tuition/credit hour: \$20 in-state; \$75 out-of-state

Arson Investigation II

Prerequisites: Fire Operations I and Arson Investigation I

Stresses legal aspects: interview and interrogation: collecting and preserving evidence; forensic lab services: field notes and report writing: field activities. Three credits.

Length/Schedule: one semester: contact Northland Pioneer College for details
Cost: tuition/credit hour: \$20 in-state; \$75 out-of-state

Phoenix College
1202 West Thomas Road
Phoenix, Arizona 85013
(602) 264-2492

Fire Investigation

Presents methods of determining point of fire origin, path of fire travel, and fire cause. Includes recognizing and preserving evidence; interviewing witnesses; arson laws and types of arson fires; court testimony; reports and records. Three credits; can be applied to A.A.S. degree in Fire Science, or certificate of completion.

Length/Schedule: one semester: contact Phoenix College for details
Cost: tuition/semester credit: \$29 county resident; \$133 outof-county; \$154 out-of-state

Pima Community College
200 North Stone Avenue
P.O. Box 3010
Tucson, Arizona 85702-3010
(602) 884-6060

Fire Investigation: Origin and Recognition of Arson

Basic principles of arson investigation. Three credit hours; can be applied toward basic certificates and A.A.S. degree in Fire Science.

Length/Schedule: one semester; contact Pima Community College for details
Cost: tuition/credit: \$26 in-state; \$41 out-of-state

Advances Fire Investigation: Arson

Designed to provide training in fire investigation to the private sector, and to state and local fire science and governmental agencies (with or without police powers), who have direct responsibility for fire investigations. Three credit hours: can be applied toward an advanced certificate in Fire Science.

Length/Schedule: one semester: contact Pima Community College for details
Cost: tuition/credit: \$26 in-state; \$41 out-of-state

Fire Investigation: Arson III

Advanced principles and techniques of fire investigation. Includes forensic lab services; incendiary devices and fuses; laws of arrest: search and seizure; scene photography and insurance fraud. Three credit hours.

Length/Schedule: one semester: contact Pima Community College for details
Cost: tuition/credit: \$26 in-state: \$41 out-of-state

Fire Investigation: Arson IV

Advanced techniques of arson investigation. Includes special topics on state of the art investigative techniques, including those involved in research, legal cases, and arson scenes. Three credit hours.

Length/Schedule: one semester; contact Pima Community College for details
Cost: tuition/credit: \$26 in-state; \$41 out-of-state

Scottsdale Community College
9000 East Chaparral Road
Scottsdale, Arizona 85250-2699
(602) 423-6000

Fire Investigation I

Presents methods of determining point of fire origin, path of fire travel, and fire cause. Includes recognizing and preserving evidence; interviewing witnesses; arson laws; types of arson fires; court testimony; reports: records. Three credits.

Length/Schedule: one semester; contact Scottsdale Community College for details
Cost: fee/credit: \$29 in-county: \$133 out-of-county; \$154 out-of-state

Fire Investigation II

Three credits. No further information available.

Length/Schedule: one semester; contact Scottsdale Community College for details
Cost: fee/credit: \$29 in-county: \$133 out-of-county: \$154 out-of-state

Yavapai College
1100 East Sheldon Street
Prescott, Arizona 86301
(602) 776-2253

Fire Investigation

Designed for law enforcement, fire service and insurance personnel
Prerequisites: Fire Operations I and II

Presents methods of determining fire cause and point of origin, and detection of incendiary fires. Includes simplified physics and chemistry necessary to analyze fire behavior. Topics include the fire problem; elementary chemistry of combustion: nature and behavior of fire; combustion properties of liquid, gaseous and solid fuels; sources of ignition; structure fires and investigation: grass and wildland fires; automobile and ship fires; electrical causes of fire; clothing and fabric fires; explosions and explosive combustion: chemical fires and hazardous materials; laboratory services; fire related deaths; arson as a crime; other investigative topics. Teaches the student to identify the main elements determining fire behavior; recognize the proper methods of investigating and documenting a structural fire; recognize laboratory services available to assist the fire investigator, and develop the mental processes of fire and arson analysis. Three credits.

Length/Schedule: 15 weeks: offered on a continuous basis
cost: \$91

ARKANSAS

Arkansas Chapter IAAI
c/o Milton Dillingham, Secretary
Stuttgart Fire Department
512 South Main Street
Stuttgart, Arkansas 72160
(501) 673-3539

Spring and Fall Seminars

No further information submitted.

Arkansas Fire Academy
P.O. Box 3499
East Camden, Arkansas 71701
(501) 574-1521

Fire/Arson Investigation

Designed for law enforcement, fire service and insurance personnel who have investigative responsibilities

Topics include behavior of fire; determining point of origin: accidental and incendiary fire cause determination; motivation of the firesetter; fire scene investigation and the follow-up investigation; basics of fire insurance; fire protection systems; vehicle fires; fatal fires; incendiary devices; legal aspects; interviews; evidence collection; arson information management systems; hands-on investigations. Certificate of completion awarded.

Length/Schedule: 80 hours: offered once a year; also offered in a 40 hour format at various sites throughout the state

Cost: none for firefighters; others contact Academy

Arkansas State Fire Marshal Office
P.O. Box 5901
Little Rock, Arkansas 72215
(501) 221-8258

Introduction to Fire/Arson Investigation

Designed for law enforcement and fire service personnel

Topics include the obligations of on-scene fire fighters and collecting and preserving evidence. Credit available to law enforcement officers and fire service personnel.

Length/Schedule: three hours: offered on request

Cost: none

Garland County Community College
100 College Drive
Hot Springs, Arkansas 71913
(501) 767-9371

Arson Investigation

Prerequisite: permission of instructor

Teaches student to conduct investigation of fires. Focuses on determination of origin and cause, and preparation of necessary forms, sketches and reports to record the facts. Student will learn to identify common motives and identify, collect, and preserve evidence. Three semester hours credit; offered as part of a two year program leading to an A.A.S. degree in Fire Protection.

Length/Schedule: one semester; offered upon sufficient student demand

Cost: tuition/credit: \$29 in-state; \$71 out-of-state

CALIFORNIA

Allan Hancock College
800 South College Drive
Santa Maria, California 93454
(805) 922.6411

Fire Investigation 1A

Designed for fire service personnel

Prerequisites in English Department: contact Allan Hancock College

Provides the student with the knowledge required to properly investigate a fire. Emphasizes investigation of fire scene, determination of cause and origin, handling and preservation of evidence, documentation of the scene, and completion of reports. Topics include: chemistry of fire; fire behavior: electrical fires; identification of fire cause and origin; fire scene photography; fire scene sketching; laboratory services; motives; collection and preservation of physical evidence. By the end of the course, the student will be able to list and explain the four methods of heat transfer, the four classes of fire, and the fire tetrahedron; define flash point, fire point, vapor density, specific gravity, flammable limits, and heat of combustion; analyze and explain the burning characteristics of common fuels; examine fire scene indicators and determine points of origin from fire scene photographs; write a complete report and draw a concise sketch of a mock fire scene; list at least six different motives for starting fires and identify the characteristics of each motive type fire; list the different agencies with laboratories and identify

their services; list the proper methods of handling evidence; identify accidental, natural, and arson fires. Two units credit. California State Fire Marshal Certification awarded.

Length/Schedule: 40 hours; offered every two years on rotating basis

Cost: \$12 registration fee; \$23 for State Fire Marshal Certification

Fire Investigation 1B

Prerequisite: Fire Investigation 1A

Provides students with a deeper understanding of fire investigation, enhancing the topics presented in Fire Investigation 1A. Includes discussion of the juvenile fire setter, as well as report writing, evidence collection, and preservation procedures. Topics include: criminal law: search and seizure: evidence collection and laboratory services: tire death investigation; fire causes: fire behavior and effects on building construction components: interviewing and interrogations; surveillance equipment/methods: general insurance industry facts and construction costs: courtroom demeanor. By the end of the course, the student will be able to differentiate between the various criminal laws as they pertain to arson; identify proper search and seizure and evidence procedures; analyze various causes of fire and describe in writing how they affect fire behavior and burn patterns within a structure: explain different interview and interrogation techniques; evaluate courtroom demeanor and define an effective means of presenting evidence. Two units credit. California State Fire Marshal Certificate awarded.

Length/Schedule: 40 hours: offered every two years on a rotating basis

Cost: \$12 registration fee: \$23 for State Fire Marshal Certification

Antelope Valley College
3041 West Avenue K
Lancaster, California 93536-5426
(805) 943-3241

Arson/Fire Investigation

Prerequisites: contact Antelope Valley College

Designed to develop abilities in the field of arson investigation. Includes techniques used to determine fire cause and origin, and whether accidental or incendiary in nature. Additional techniques will be taught to aid in the recognition, gathering and preserving of physical evidence; utilization of crime lab procedures in connection with evidence; the application for, obtaining

and service of, search warrants: means by which an investigator can qualify as an expert witness. Topics include: introduction to arson investigation; physical properties of fire; fire-fighting principles; penal code sections relating to arson investigation: evidence code and the requirements of the law of evidence: insurance code/other codes relating to arson investigation; writing affidavits and making application for search warrants; cultivation and use of informants: techniques of arson/ fire investigation at the scene; gathering and preserving physical evidence; surveillance: court testimony; expert testimony; opinion testimony: practical application: examining a burned structure. By the end of the course, the student will demonstrate the ability to determine cause and origin of fires by examination of a fire scene; recognize, gather and preserve physical evidence: make application for search warrants, including the execution of affidavits in support of application: define the types of testimonial evidence utilized in arson cases, with particular reference to expert testimony: utilize techniques learned in class to photograph (or direct a photographer to photograph) and properly record physical evidence at the scene of an investigation. Three units credit.

Length/Schedule: one semester

Cost: enrollment fee: \$6/unit per semester (\$60/ semester maximum), resident; \$104/unit per semester plus enrollment fee, non-resident

Fire Investigation 1A: Fire Cause and Origin Determination

Prerequisite: fundamental Fire Technology courses or equivalent, or permission of instructor

Provides participants with an introduction to and basic overview of fire scene investigation. Gives information on fire scene indicators and introduces fire personnel to concepts of investigation. Two units credit.

Length/Schedule: 3 hours weekly; contact Antelope Valley College for details
Cost: see above

Barstow Community College
2700 Barstow Road
Barstow, California 92311
(619) 252-2411

Fundamentals of Fire Investigation

Designed for fire service personnel

Topics: types of fires; determination of origin and cause: travel and spread; arson laws. Three units. No prerequisites.

Length/Schedule: 18 weeks; contact Barstow Community College for details
Cost: fee/unit: \$6 resident; \$104 non-resident

California Conference of Arson Investigators
1122 East Lincoln Avenue, Suite 202
Orange, California 92665
(714) 283-2295

Advanced Fire Investigation Seminars

Designed to serve the professional needs of men and women engaged in all aspects of fire and arson investigation, including fire department investigators, law enforcement officers, those in the public utilities, the insurance industry, the legal field, and private investigators and consultants. Topics vary but all focus on advanced, up-to-date training in fire investigation; a legal update is included in each seminar. No prerequisites. Training certificate issued upon completion of workshop. Accredited through local community college district.

Length/Schedule: 3 days; 2 seminars a year (January and July), offered in Fresno
Cost: \$85 for members; \$125 for non-members

California Criminalistics Institute
4949 Broadway
Sacramento, California 95820
(916) 739-4380

Arson Accelerant Detection

Designed for criminalists

Addresses isolation, detection, and classification of arson accelerants from arson debris analysis.
P.O.S.T. certified.

Length/Schedule: 40 hours
Cost: P.O.S.T. reimbursable

Explosives, (Low): Analysis

Provides criminalist with information about, and practical analytical experience in the examination of low explosives and post-blast residues. Also addresses applicable explosives laws and contemporary bombing trends.

Length/Schedule: 40 hours
Cost: P.O.S.T. reimbursable

California Department of Forestry Academy
4501 Highway 104
Lone, California 95640
(209) 274-2426

Advances Officer-AIU (Arson Investigation Unit)

Prerequisites: P.O.S.T. Basic, AIU member, Peace Officer status

Updates Peace Officer in criminal law, new techniques in law enforcement, equipment, and procedures.
Course changes with current developments.

Length/Schedule: 5 days (32 hours): recommended annually, required every 2 years
Cost: contact California Department of Forestry Academy

Preliminary Fire Investigation

Designed for newly appointed company officers and fire fighters

Prepares the participant to complete preliminary investigation reports. Topics include: interviews; observations; sources of ignition: investigation of vehicle, structure and wildland fires; identification, preservation and recording of evidence: report preparation. No prerequisites.

Length/Schedule: 20 hours (offered as part of Basic Fire Control Course)
Cost: contact California Department of Forestry Academy

Arson Investigation I (Fire Investigation 1A)

Designed for employees with fire investigation responsibilities

Prepares participant to successfully carry out the responsibility of arson detection and establish the foundation for an in-depth arson investigation. Also serves as the initial phase of training for persons who intend further study to become fire and arson investigators.
No prerequisites.

Length/Schedule: 5 days (40 hours)
Cost: approximately \$56/day

Arson Investigation II (Fire Investigation 1B)

Designed for employees with fire investigation responsibilities

Prerequisites: Arson Investigation I or permission of the Director of Fire Prevention/Law Enforcement

Prepares participant to successfully carry out the responsibility of arson detection and investigation. The scope of the course ranges from an understanding of fire behavior and determining the cause and origin of fire, to the types and uses of laboratory services available to the investigator. Includes the responsibilities of an investigator to conduct a thorough fire scene investigation.

Length/Schedule: 5 days (40 hours)

Cost: approximately \$56/day

Arson Investigation III (Fire Investigation 2A)

Prerequisites: Arson Investigation I and II or permission of the Director of Fire Prevention/Law Enforcement

Prepares participant to conduct criminal investigations specializing in arson. Topics: criminal law; laboratory services; search and seizure; other activities aiding in criminal investigation.

Length/Schedule: 5 days (40 hours)

Cost: approximately \$56/day

Arson Investigation IV (Fire Investigation 2B)

Prerequisites: Arson Investigation I, II, and III or permission of the Director of Fire Prevention/Law Enforcement Training

Culmination of the Arson Investigation series. Emphasizing practical investigation problems, each participant actually prepares a case report after investigating a fire. The report is reviewed by an attorney and is presented in moot court.

Length/Schedule: 5 days (40 hours)

Cost: approximately \$56/day

Arson Investigation I-IV are also listed in the California Commission on Peace Officers Standards and Training (P.O.S.T.) Certified Course Catalog as Arson/Explosive Investigation I-IV.

**California State Fire Marshal Office
Training Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823
(916) 427-4308**

Investigation 1A: Fire Cause and Origin Determination

Designed for fire fighters of all ranks, fire investigators, police officers and other professional fire investigators

An introduction to, and basic overview of fire scene investigation. Provides information on fire scene indicators and introduces fire personnel to concepts of investigation. Applies to Fire Officer and Fire Investigator I certifications. No prerequisites.

Length/Schedule: 40 hours

Cost: contact California State Fire Marshal Office, Training Division

Investigation 1B: Techniques of Fire Investigation

Designed for: fire fighters of all ranks, fire investigators, police officers and other professional fire investigators

Prerequisite: Investigation 1 A

Provides participants with information to achieve a deeper understanding of fire investigation. Builds on Investigation 1A and adds topics of discussion including the juvenile firesetter, report writing, evidence collection and preservation procedures. Applies to Fire Investigator I certification.

Length/Schedule: 40 hours

Cost: contact California State Fire Marshal Office, Training Division

Investigation 2A: Criminal and Legal Procedures

Designed for fire investigation personnel

Prerequisites: Investigation 1A and 1B

Provides information needed to build skills to successfully investigate, apprehend and convict arsonists. Also focuses heavily on the legal preparation required to develop the case. Topics include interviewing and interrogating suspects; search and seizure: search warrants; courtroom demeanor; working with your district attorney's office and more. Designed to prepare the participants for the courtroom. Applies to Fire Investigator II certification.

Length/schedule: 40 hours

Cost: contact California State Fire Marshal Office, Training Division

Investigation 2B: Field Case Studies

Designed for fire and law enforcement officers responsible for fire investigation and courtroom appearances
Prerequisites: Investigation 1A, 1B and 2A

Provides advanced instruction in fire scene investigation, case preparation and courtroom presentation. Topics include: review of fire scene photography; sketching; evidence collection; interviewing and interrogation; extensive use of simulations for developing and presenting an arson case. Applies to Fire Investigator II certification.

Length/Schedule: 40 hours
Cost: contact California State Fire Marshal Office, Training Division

Fire and Arson Detection (National Fire Academy course)

Designed for all volunteer fire service personnel

This NFA hand-off course covers determining the point of origin and probable cause; recognizing indications of possible arson; preserving the fire scene and evidence for investigative purposes; and basic procedures relative to conducting a fire investigation. Applies to Volunteer Fire Officer certification. No prerequisites.

Length/Schedule: 16 hours
Cost: contact California State Fire Marshal Office, Training Division

**California State Fire Marshal Office
Arson/Bomb Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823
(916) 262-2030**

Arson Explosives Investigation 1A

Provides training in fire and explosion investigative techniques, evidence preservation, and court testimony in arson related cases. P.O.S.T. certified. As offered by the Arson/Bomb Division, this course contains substantive differences from the state's Fire Investigation 1A course.

Length/Schedule: 40 hours
cost: \$55

Arson/Explosive Investigation 1B

Provides advanced training in fire and explosion investigative techniques, evidence preservation, and

court testimony in arson related cases. Includes field exercises. P.O.S.T. certified. As offered by the Arson/Bomb Division, this course contains substantive differences from the state's Fire Investigation 1B course.

Length/Schedule: 40 hours
cost: \$55 fee

**College of Marin
Indian Valley Campus
Novato, California 94947
(415) 883.2211**

Fire Investigation 1A

Provides the student with the knowledge required to properly investigate a fire; emphasizes investigation of fire scene: determining cause and origin; handling the preservation of evidence; documentation of the scene; completion of reports. Two units credit. Meets requirements of State Fire Marshal's Regional Academy. No prerequisites.

Length/Schedule: one semester
Cost: tuition/unit: \$10 in-state; \$122 out-of-state; fees additional

Fire Investigation 1B

Provides participants with information to achieve a deeper understanding of fire investigation. Topics include the juvenile fire setter; report writing; evidence collection and preservation. Two units credit. Meets requirements of State Fire Marshal's Regional Academy.

Length/Schedule: one semester
Cost: tuition/unit: \$10 in-state; \$122 out-of-state; fees additional

Wildland Fire Investigation

Basic course for fire service personnel. Covers all basic techniques of wildland fire investigation, laws and regulations pertaining to fires in wildland areas, principles of wildland fire spread, and preservation and collection of evidence. Three units credit.

Length/Schedule: one semester
Cost: tuition/unit: \$10 in-state; \$122 out-of-state; fees additional

**College of the Desert
43-500 Monterey Avenue
Palm Desert, California 92260
(619) 346-8041**

Fire Investigation

Introduces the student to arson and incendiary fires. Topics include: methods of determining fire cause; recognizing and preserving evidence; interviewing and determining witnesses; procedures in handling juveniles; court procedure and giving court testimony. Three units credit.

Length/Schedule: one semester; contact College of the Desert for details

Cost: tuition/unit: \$6 resident; (9 units or less): \$113 non-resident

Fire Investigation 1B

Focuses on arson investigation. Topics include evidence; fire deaths; interviewing; crime scene searches; motives: criminal laws; juvenile law; procedures and intent. California Fire Marshal Office approved course. Two units credit.

Length/Schedule: one semester; contact College of the Desert for schedule information

Cost: tuition/unit: \$6 resident; (9 units or less); \$113 non-resident

College of the Sequoias
915 South Mooney Boulevard
Visalia, California 93277
(209) 730-3700

Fire Investigation 1A

Prerequisite: currently employed in the fire service area (recommended)

Designed for students who are currently employed in a fire service area and are interested in advancing their career into the area of investigation. Students study the techniques of fire scene investigation, fire indicators and fire behavior. Exposes students to arson laws, writing documentation, and insurance reports. Applies toward investigator certification by the California State Fire Marshal's Office. Three units credit.

Length/Schedule: contact College of the Sequoias
Cost: tuition/unit: \$10 in-state; \$122 out-of-state

College of the Siskiyous
800 College Avenue
Weed, California 96094-2899
(916) 938-4461

Fire Investigation I

Prerequisites: tenth grade reading level on a standardized test; eligibility for English 1A (Reading and Composition-Expository Writing) or concurrent enrollment in English 52 (Fundamentals of Composition)

Designed to give fire and police personnel a basic knowledge of arson and incendiarism. Topics include: fire cause determination: recognition of types of fires; related laws: arrest and evidence. Three credit hours.

Length/Schedule: one semester; contact College of the Siskiyous for details

Cost: tuition/unit: \$10 in-state; \$104 out-of-state

Columbia College
Yosemite Community College District
P.O. Box 1849
Columbia, California 95310-1849
(209) 533-5107

Fire Investigation

Meets requirements for Fire Investigation, a state certified course. Two units credit. No prerequisites.

Length/Schedule: contact Columbia College
Cost: tuition/unit: \$10 in-state; \$116 out-of-state

Arson Investigation

Designed to help the arson investigator meet responsibilities in arson detection and investigation. P.O.S.T. certified.

Schedule/Length: 36 hours
cost: \$10

Arson Investigation Advanced

A continuation of Columbia Junior College Basic Arson Course. Attendees will be limited to appropriate police/fire investigators. P.O.S.T. certified.

Length/Schedule: 36 hours
cost: \$10

Crafton Hills College
11711 Sand Canyon Road
Yucaipa, California 92399-1799
(714) 794-2161

Fire Investigation 1A: Fire Cause and Origin Determination

Designed for firefighters of all ranks, fire investigators, police officers and other professional fire investigators

Provides participants with an introduction to, and basic overview of fire scene investigation. Provides information on fire scene indicators and introduces fire personnel to concepts of investigation. Two point five (2.5) units credit. Applies to Fire Officer and Fire Investigator I certifications. No prerequisites.

Length/Schedule: 40 hours; generally offered twice a year

Cost: \$150

Fire Investigation 1B: Techniques of Fire Investigation

Designed for fire fighters of all ranks, fire investigators, police officers and other professional fire investigators

Prerequisites: Investigation 1A

Provides participants with information to achieve a deeper understanding of fire investigation. Builds on Investigation 1A and adds topics of discussion including the juvenile firesetter, report writing, evidence collection and preservation procedures. Two point five (2.5) units credit. Applies to Fire Investigator I certification.

Length/Schedule: generally offered twice a year
cost: \$150

Investigation 2A: Criminal and Legal Procedures

Designed for fire investigation personnel
Prerequisites: Investigation 1A and Investigation 1B

Helps participants build the necessary skills to successfully investigate, apprehend and convict arsonists. Also focuses heavily on the legal preparation required to develop a case. Topics include interviewing and interrogating suspects; search and seizure; search warrants; courtroom demeanor, working with the district attorney's office and more. Designed to prepare the participants for the courtroom. Two point five (2.5) units credit. Applies to Fire Investigator II certification.

Length/Schedule: 40 hours
cost: \$150

Investigation 2B: Field Case Studies

Designed for fire and law enforcement office responsible for fire investigation and courtroom appearances
Prerequisites: Investigation 1 A, 1B, 2A

Provides advanced instruction in fire scene investigation, case preparation and courtroom presentation. Topics include: review of fire scene photography; sketching; evidence collection; interviewing and interrogation. Extensive use is made of simulations for developing and presenting an arson case. Two point five (2.5) units credit. Applies to Fire Investigator II certification.

Length/Schedule: 40 hours: generally offered twice a year
cost: \$150

Fire and Arson Detection (National Fire Academy course)

Designed for all volunteer fire service personnel

This NFA hand-off course covers determining the point of origin and probable cause; recognizing indications of possible arson; preserving the fire scene and evidence for investigative purposes; basic procedures related to conducting a fire investigation. Two point five (2.5) units credit. Applies to Volunteer Fire Officer certification. No prerequisites.

Length: 16 hours
Cost: contact Crafton Hills College

El Camino College
16007 Crenshaw Boulevard
Torrance, California 90506
(310) 538-5700

Arson and Detection and Control

Provides an introduction to, and basic overview of Fire Science investigation. Focuses on providing information on fire scene indicators and introducing fire personnel to concepts of investigation. Applies to Fire Officer Certification. Two units credit.

Length/Schedule: contact El Camino College
Cost: tuition/unit: \$6 resident; \$120 non-resident

Arson Detection and Control

Prerequisite: Introduction to Fire Technology

A course in the prevention, detection and control of fires especially as it applies to those caused by various

methods of arson. Includes the motives of arson; lawful search; fire investigation; identification, collection and preservation of evidence. Three units credit.

Length/Schedule: contact El Camino College
Cost: tuition/unit: \$6 resident; \$120 non-resident

Hartnell College
156 Homestead Avenue
Salinas, California 93901
(408) 755-6720

Fire Investigation 1A: Fire Cause and Origin Determination

Techniques required for incendiary, accidental, fatal, vehicle, wildland and juvenile fire investigation: report writing and evidence collection. Applies to California state certification for Fire Officer and Fire Investigator I. Three units credit; can be applied to A.S. degree in Fire Science (offered in conjunction with Monterey Peninsula College).

Length/Schedule: one semester
Cost: tuition/unit: \$104 non-resident

Pasadena City College
Department of Engineering and Technology
1570 East Colorado Boulevard
Pasadena, California 91106-2003
(818) 585-7123

Fire Investigation

Topics: introduction to arson and incendiarism; arson laws and types of incendiary fires; methods of determining fire causes, recognizing and preserving evidence, and interviewing and detaining witnesses; procedures in handling juveniles; court procedures and giving court testimony. Three units credit.

Length/Schedule: one semester
Cost: tuition/unit: \$10 in-state; \$114 out-of-state

Rancho Santiago College
Fire Technology Department
1530 West 17th Street
Santa Ana, California 92706
(714) 564-6845

Fire Investigation I (Fire Academy 251)

Designed for law enforcement and fire service personnel
Prerequisites: Basic Fire Academy, additional Fire Prevention and Fire Academy coursework; contact Rancho Santiago College for details

Focuses on determination of fire origin, cause, evidence and records. Designed to teach basic investigative techniques required for Fire Officer I, and to provide students with skills and knowledge necessary to meet the standards stipulated in NFPA 1031, Fire Inspector Professional Qualifications. Topics include: responsibilities of firefighters as to fire cause; laws relating to fire investigation; fire cause (natural-accidental); determining point of origin, char, heat and smoke patterns; identification, collection and preservation of evidence: firesetters, motives and methods; field note taking; fire scene records, cooperative investigating agencies: sources of information. Two units credit; certificate of completion awarded. Course leads to state certification as Fire Investigator I.

Length/Schedule: 40 hours (2 weeks): fall/spring semester every school year
Cost: \$60 for registration, books, and all related costs

Fire Investigation 1B (Fire Academy 251B)

Designed for fire service personnel
Prerequisite: Fire Investigation I or equivalent

Teaches students to determine fire origin and cause, identify, collect and preserve evidence, and prepare and deliver findings in a court presentation. Provides intermediate level knowledge and skills in fire cause determination, crime scene investigation, witness interrogation, evidence preservation, and case preparation/presentation in criminal and civil cases. Topics include: evidence; evidence collection: evidence of fire occurrence and arson: laboratory services; fire deaths; building construction; flame spread; interviewing and interrogating; wildland and vehicle investigation: types of searches; fire scene documentation; criminal law. Certificate of completion awarded. Course leads to state certification as Fire Investigator 1B. Two units credit.

Length/Schedule: 40 hours (2 weeks); fall/spring semesters every year
Cost: \$60 for registration, books, and all related costs

Fire Investigation II (Fire Academy 252)

Designed for law enforcement and fire service personnel

Prerequisite: Fire Investigation I or equivalent

Provides intermediate level knowledge and skills in fire cause determination, and case preparation and presentation in criminal prosecution and in civil cases. Topics include: laboratory equipment and services; evidence gathering; insurance adjusters; estimating building

damage costs; fraud fires; interview and interrogation of witnesses; fire death investigations: search and seizure; preparation of cases: court presentation. Two units credit. Certificate of completion awarded. Course leads to state certification as Fire Investigator II.

Length/Schedule: 40 hours; not offered every semester
Cost: registration \$12; State Fire Marshal fee and exam \$118.99

Interviewing And Counseling juvenile Firesetters

(Fire Academy 32)

Designed for fire service personnel

Provides an overview of juvenile arson problems. Teaches students techniques of investigation, interviewing, and referral of the offender. Special emphasis is placed on the developmental levels of children. Topics include: how and why the juvenile firesetters program began; understanding fire and firesetters; two basic types of children and adolescents who start fires; interviewing the child and parents; scoring the interview.

Length/Schedule: 8 hours; not offered in 1992-93; contact Rancho Santiago College for details
Cost: \$1.20 registration; \$15 for manual

Fire Investigation

Designed for fire service personnel
Prerequisite: Introduction to Fire Technology

Topics include: determining causes of fires; types of fires; related laws; introduction to arson and incendiary; recognizing and preserving evidence. Recommended for Criminal Justice and Property/Casualty Insurance majors. By the end of the course, the student will be able to recognize, protect and preserve evidence of fire cause. Three units credit; can be applied toward A.A. degree in Fire Technology.

Length/Schedule: one semester; offered every fall and spring
Cost: \$18 registration and related health and parking fees

Rio Hondo College
3600 Workman Mill Road
Whittier, California 90608
(310) 908-3450

Fire Investigation

Designed for fire service personnel

Prerequisites: none required: Introduction to Fire Technology suggested

Focuses on determining causes of fires (accidental, suspicious and incendiary); types of fire; related laws; introduction to arson and incendiarism; recognizing and preserving evidence; interviewing witnesses and suspects: arrest and detention procedures: court procedures, and giving court testimony. Additional topics include: introduction to fire investigation; laws and legal aspects; char, heat and smoke patterns; identification, collection and preservation of evidence: firesetters, motives and methods; interagency cooperation and information; field notetaking, fire scene recording: reports and records. Three units credit.

Length/Schedule: one semester: offered every other year
Cost: \$5/unit; maximum of \$50/semester

Riverside Community College
4800 Magnolia Avenue
Riverside, California 92506-1299
(909) 684-3240

Fire Investigation I

Topics include fundamentals of investigation: causes, chemistry and physics of fires; collection and preservation of physical evidence; scientific aids; laws relating to arson; case preparation and report writing. Meets the requirements of the California Fire Academy system. Two units credit.

Length/Schedule: one semester; contact Riverside Community College for details
Cost: contact Riverside Community College

San Diego Miramar College
10440 Black Mountain Road
San Diego, California 92126
(619) 536-7800

Fire Investigation 1A

Designed for fire service personnel

An introduction to arson investigation. An intensive course in the principles of determining cause: recognizing and preserving evidence; interviewing witnesses and suspects: arrest and detention procedures: court procedures; giving court testimony. Two units credit. Part of the California State Fire Academy curriculum. No prerequisites.

Length/Schedule: one semester; contact San Diego Miramar College for details
Cost: tuition/unit: \$10 in-state; \$116 out-of-state

Fire Investigation 1B

Designed for fire service personnel
Prerequisite: Fire Investigation 1A

Provides participants with information to achieve a deeper understanding of fire investigation. Builds on Investigation 1A and adds topics of discussion including the juvenile fire setter, report writing, evidence collection and preservation procedures. Credit does not apply to the associate degree. Part of the California State Fire Academy curriculum. Two units credit.

Length/Schedule: one semester; contact San Diego Miramar College for details
Cost: tuition/unit: \$10 in-state; \$116 out-of-state

Fire Investigation 2A

Prerequisite: Fire Investigation 1A

Designed to build skills needed to successfully investigate, apprehend and convict arsonists. Also focuses heavily on the legal preparation required to develop the case. Topics include interviewing and interrogating suspects; search and seizure: search warrants; courtroom demeanor; working with district attorney's office. Designed to prepare participants for the courtroom. Credit does not apply to the associate degree. Part of the California State Fire Academy curriculum. Two units credit.

Length/Schedule: one semester; contact San Diego Miramar College for schedule information
Cost: tuition/unit: \$10 in-state; \$116 out-of-state

San Francisco Community College
50 Phelan Avenue
San Francisco, California 94112
(415) 239-3359

Fire Investigation

Trains students in the determination of fire causes, the recognition and preservation of evidence, arson, and the latest incendiary techniques of terrorist groups. Topics include: responsibilities of fire fighters as to fire causes: legal rights of fire fighters; arson trends: history of fire investigation: laws relating to fire investigation; arrest, search and seizure laws; applicable code sections; electrical causes of fires; chemistry/physics of fires; types of buildings; types of occupancies; motives;

methods/devices used to set fires; juvenile fire setter programs; State of California fire investigation material: types of evidence: handling evidence; court presentations; chain of custody; wildland fires; vehicle fires; basic building construction. Three unit course approved by the State of California, Department of Education. No prerequisites.

Length/Schedule: one semester; next scheduled in fall 1993 (tentative)
Cost: \$6/unit

San Joaquin Delta College
Public Safety Division
5151 Pacific Avenue
Stockton, California 95207
(209) 474-5353

Fire Investigation

Covers introduction to arson and incendiarism: arson laws: types of incendiary fires; methods of determining fire cause; recognizing and preserving evidence; interviewing and determining witnesses: court procedures and giving testimony. Topics include: responsibilities of firefighters as to fire cause: legal rights of firefighters: arson trends; history of fire investigation; laws relating to fire investigation; fire cause (natural-accidental); determining point of origin, char, heat and smoke patterns: identification, collection and preservation of evidence; firesetters, motives and methods: cooperative investigating agencies and sources of information; field notetaking, fire scene recording: interviewing witnesses and suspects: arrest and detention procedures; reports and records; courtroom demeanor and testimony. The student will become familiar with types of arson fires in our country; gain knowledge of the degrees of arson and the punishment associated with arson; understand the preservation of physical evidence under suspicious fire conditions: appreciate the knowledge needed to properly investigate the fireground under both normal and suspicious fires; recognize the possibility of an arson fire. Three units credit applied toward Fire Technician Certificate or A.A. degree.

Length/Schedule: 48 hours; offered annually
Cost: \$6/unit; text book \$35

Santa Rosa Junior College
Fire Technology Department
1501 Mendocino Avenue
Santa Rosa, California 95401-4395
(707) 539-5210

Fire Investigation

Three units; can be applied toward a Fire Technology certificate or an A.S. degree.

Length/Schedule: contact Santa Rosa Junior College
Cost: tuition/unit: \$10 in-state; \$121 out-of-state

Shasta College
P.O. Box 496006
Redding, California 96049-6006
(916) 225-4624

Fire Investigation I

Designed for law enforcement and fire service personnel

Designed to update techniques used in fire investigation. Provides information on fire behavior; cause and origin; building construction and its effects on fire behavior; arson motives; evidence collection; law and legal problems. Includes field experience. Two units credit. Applies to State of California certification.

Length/Schedule: 40 hours; offered every two years
Cost: \$32 in-state; \$204 out-of-state

Fire Investigation 1A

Prerequisite: Fire Investigation I

Prepares fire investigation personnel to meet the practical requirements for being expert witnesses in court. Topics: basic methods used to determine the identity and cause of death of a body found at a fire scene; general effects of specific blood carbon monoxide concentrations; knowledge to be gained from a pathologist; legal limits to searching and transporting a dead person; latent fingerprints, voice recordings and prints, polygraphy and psychological stress evaluator; fire damage estimation; role of insurance adjusters and information available from insurance companies; techniques for effectively approaching and interviewing witnesses and interrogation suspects without violating basic rights; basic legal concepts relative to search. Two units credit. Applies to State of California certification.

Length/Schedule: 40 hours; offered every two years
Cost: \$32 in-state; \$204 out-of-state

Fire Investigation 1B

Designed for law enforcement and fire service personnel

Prerequisite: Investigation 1A or instructor consent

Provides participants with the information to achieve a deeper understanding of fire investigation. Builds on Investigation 1A and adds discussion of juvenile fire-setters, report writing, interviewing and interrogation, fire scene documentation, criminal law, wildland, vehicle, and structure fires, and evidence collection and preservation procedures. Two units credit. Applies toward State of California certification.

Length/Schedule: 40 hours; offered every two years
Cost: \$32 in-state; \$204 out-of-state

Sierra College
5000 Rocklin Road
Rocklin, California 95677
(916) 781-0525

Overhaul: Property Conservation: and Fire Investigation

An introduction to discovering and extinguishing hidden fires as well as restoring premises; purpose and value of salvage; fire service salvage equipment (types, usages, care); fire investigation (factors before/during/after fire; recognition, collection, and preservation of evidence: arson materials and equipment). Point zero five (.05) units credit. No prerequisites.

Length/Schedule: 27 laboratory hours; contact Sierra College for details
Cost: fee/unit: \$6; \$104 out-of-state

Fire and Arson Detection

Covers determining the point of origin and probable cause; recognizing indications of possible arson; preserving the fire scene and evidence for investigative purposes; basic procedures relative to conducting a fire investigation. One unit credit. No prerequisites.

Length/Schedule: 18 lecture hours; contact Sierra College for details
Cost: fee/unit: \$6; \$104 out-of-state

Fire Investigation 1A: Fire Cause, Origin and Determination

Presents skills to determine the cause of fire, its human and environmental effects; and to develop interpersonal skills needed to successfully investigate, apprehend, and convict an arsonist. Two units credit.

Length/Schedule: 40 lecture hours; fall or spring semesters
Cost: fee/unit: \$6; \$104 out-of-state

Fire Investigation 1B: Techniques of Fire Investigation

Topics include: fire behavior; building construction; techniques required for incendiary, accidental, fatal, vehicle, wildland, and juvenile fire investigations; report writing; evidence collection and preservation procedures. Two units credit. No prerequisites.

Length/Schedule: 40 hours; fall or spring semesters
Cost: fee/unit: \$6; \$104 out-of-state

Solano Community College
4000 Suisun Valley Road
Suisun, California 94585
(707) 864-7000

Fire Investigation 1A

Two units college credit. No prerequisites.

Length/Schedule: 40 hours: next scheduled for fall 1993 (tentative)
Cost: fee/two units: \$18; books and state fees approximately \$45

Fire Investigation 1B

Two units credit. No prerequisites.

Length/Schedule: 40 hours; next scheduled in fall 1993 (tentative)
Cost: fee/two units: \$18; books and state fees approximately \$45

Yosemite Community College District
2201 Blue Gum Avenue
Modesto, California 95352
(209) 575-6487

Investigation of Fires

Prerequisite: Introduction to Fire Science

Topics include: determining cause of fires (accidental, suspicious, and incendiary); types of fires: related laws: introduction to arson and incendiarism; recognizing and preserving evidence: interviewing witnesses and suspects: arrest and detention procedures; court procedures and giving court testimony. Field trips may be required. Three units credit. Can be applied toward certificate or A.S. degree in Fire Science.

Length/Schedule: one semester: contact Yosemite Community College District for details
Cost: tuition/credit: \$10 in-state: \$104 out-of-state

Fire Investigation I

Designed for fire service personnel
Prerequisite: Introduction to Fire Science

Topics include: information on the national arson problem: fire investigation responsibilities and conduct of the investigator, technical information on terminology and science of fire including combustion, ignition, chemistry of fire, phases of fire, classes of fire, heat energy sources, and explosive conditions. Instruction on all types of fire investigation techniques and the legal aspects of fire investigation. Field trips required. Two units credit.

Length/Schedule: 40 hours; contact Yosemite Community College District for details
Cost: contact Yosemite Community College District

COLORADO

Aims Community College
Emergency Services Academy
P.O. Box 69
Greeley, Colorado 80632
(303) 330-8008

Fire Cause Determination

Students will acquire the ability to determine the cause of fire (accidental, suspicious and incendiary). Topics include: types of fire; area and point of origin; method and cause of fire spread; recognition and preservation of possible evidence. Three credits; can be applied toward a two year A.A.S. degree in Fire Protection Technology.

Length/Schedule: 30 hours; contact Aims Community College for details
Cost: tuition/credit hour: \$19 in-district; \$35 out-of-district: \$88 out-of-state

Arson Investigation

Presents information on the national arson problem, fire investigation responsibilities and the conduct of the investigator. Student will acquire the ability to recognize and preserve evidence of arson, and an understanding of the law as it applies to arson. Additional topics include interviewing witness and suspects, arrest and detention procedures, court procedures and proper presentation of testimony. Three credits: can be applied toward a two year A.A.S. degree in Fire Protection Technology.

Length/Schedule: 30 hours; contact Aims Community College for details
Cost: tuition/credit hour: \$9 in-district; \$35 out-of-district; \$88 out-of-state

Colorado Advisory Committee on Arson Prevention
6565 South Dayton Street, Suite 2400
Englewood, Colorado 80111
(303) 790-0216

Practical Fire Investigation (Spring)

Designed for insurance claims adjusters

Topics include initial fire cause determination in vehicles and structures; accidental or incendiary: when to call in an investigator; legal issues; bad faith suits.

Length/Schedule: 8-16 hours: held annually in May
cost: \$35

Practical Fire Investigation (Fall)

Designed for cause and origin experts from all fields

A basic class designed to bridge the gap between the insurance industry and the public sector. Topics: bad faith suits; insurance operating procedures; state insurance immunity act; resources available from insurance industry for public sector investigators.

Length/Schedule: 8- 16 hours; held annually in September
cost: \$35

Colorado Chapter IAAI
c/o Donald Peak, President
P.O. Box 27297
Englewood, Colorado 80227
(303) 936-8435

Spring or Fall Seminar

Designed for law enforcement, fire service and insurance personnel

Prerequisite: must be an investigator or insurance adjuster

Different topics (investigation, laws, etc.) taught to prepare individuals for the investigative field and certification. Tested. Certificates of completion for passing exam. Certificates of attendance for non-completion or test failure.

Length/Schedule: 12- 16 hours each; next scheduled in May 1993

Cost: \$45 for chapter members; \$60 for non-chapter members (includes materials and one day's lunch)

Colorado Division of Fire Safety
700 Kipling Street
Suite 1200
Denver, Colorado 80215
(303) 239-4463

Fire/Arson Detection (National Fire Academy course)

Designed for law enforcement and fire service

Presents basic techniques of determining fire origin and cause, and primary clues or evidence of arson. May be used as an introduction for firefighters or as a review for officers. Topics include: firesetter motivation: determining the point of fire origin and probable cause; legal and practical considerations in preserving the fire scene and evidence of arson; the Fire Officer's role in vehicle or fatal fire investigations. National Fire Academy Certificate awarded. No prerequisites.

Length/Schedule: 2 days: offered on request at various sites throughout the state
cost: \$15

Denver Fire Department
Fire Investigation Bureau
745 West Colfax Avenue
Denver, Colorado 80204
(303) 640-5551

Advanced Arson Investigation Seminar

Topics vary; examples: fire related pathology; effects of toxic gases: chemistry of fire; interpretation of burn patterns; point of origin; laboratory analysis; crime/fire scene re-construction; recognition, collection, preservation of evidence; crime scene photography/videography; defense tactics: search and seizure; preparation for trial: electrical fire causes; advanced fire scene investigation; preparing the arson investigator as an expert witness.

Length/Schedule: 5 days; offered annually
Cost: 1993: \$275 (early registration \$250); includes handout materials, morning coffee and rolls, lunch for four days, parking

International Association of Bomb Technicians and Investigators
P.O. Box 6609
Colorado Springs, Colorado 80934
(719) 636-2596

Annual Training Conference

The conference is designed to improve professional skills, and to provide an opportunity to exchange information and check out the latest equipment. Topics include: bomb disposal; post-blast scene investigation; intelligence operations; courtroom testimony; bomb squad equipment; security. No prerequisites.

Length/Schedule: 1 week; contact International Association of Bomb Technicians and Investigators (IABTI) for schedule information
Cost: contact IABTI

Metropolitan Arson Investigators Association
8220 Louise Drive
Denver, Colorado 80232
(303) 797-3268

Annual Seminar

No further information available.

Pikes Peak Community College
5675 South Academy Boulevard
Colorado Springs, Colorado 80906-5498
(719) 576-7711

Fire Investigation

Designed primarily for employed firefighters, but may be taken by any interested student

Topics include: arson and incendiarism; arson laws; types of incendiary fires; methods of determining fire cause; recognizing and preserving evidence; interviewing and detaining witnesses: procedures in handling juveniles: court procedure; giving testimony. Two credit hours; offered as part of an A.A.S. degree in Fire Science.

Length/Schedule: one semester: offered fall and spring terms
Cost: tuition/credit hour: \$43 in-state: \$172 out-of-state

Red Rocks Community College
Fire Science Department
13300 West 6th Avenue
Lakewood, Colorado 80401-5398
(303) 988-6160

Fire/Arson Investigation

Designed for law enforcement, fire service and insurance personnel

Prerequisites: Introduction to Fire Protection, Basic Fire Academy

Presents basics of fire investigation: point of origin: cause; method of spread, recognition and preservation of evidence: arson law; constitutional law; interviewing; court procedures; testimony. Student will demonstrate understanding of chemistry of fire, fire behavior, and fire behavior in different types of construction: knowledge of fire/arson process; recognition and preservation of potential evidence before, during and after fire; knowledge of law, court and testimony procedures. Upon completion of the course, student will be prepared for entry level position on Arson Investigation Team. Three credit hours. National Fire Academy Certificate awarded for successful completion.

Length/Schedule: 45 hours (15 weeks, 3 hours a week): next scheduled in fall 1993
Cost: \$150 tuition; \$35 for books

Advances Arson Investigation

Designed for firefighters and police officers only
Prerequisite: Basic Arson Investigation

Presents advanced topics in fire investigation: advanced investigation procedures; explosives training; use of case studies. Most students are expected to have some arson/fire investigation experience and will learn from each others' experience, and through documented case study. By the end of the course, students will be prepared to assume fire investigation responsibilities. Three credit hours.

Length/Schedule: 45 hours, 15 weeks: next scheduled in spring semester 1993
Cost: tuition approximately \$150; \$45 for books

CONNECTICUT

Connecticut Chapter IAAI
c/o Dennis Flynn, Secretary
9 Woodridge Road
West Haven, Connecticut 06516
(203) 932-4262

Annual Seminar

No further information submitted.

Connecticut Commission on Fire Prevention and Control
294 Colony Street
Meriden, Connecticut 06450
(203) 238-6587

Annual Fire School: Juvenile Firesetter

An introductory course on creation of a juvenile firesetter program. Covers suggestions on how to begin, basics on creating forms and procedures, and discussion on how to shape a program to suit the needs of your community. Relies heavily on discussion and exchange of ideas, tips and experiences. Individual participation is encouraged.

Length/Schedule: 1 day

Cost: contact Connecticut Commission on Fire Prevention and Control

Annual Fire School: Arson Investigation

Intended for those new to the fire investigation field or aspiring to that position. Topics include: point of origin determination: accidental versus incendiary: fatal fires; legal issues: psychology of the firesetter; the twelve crucial questions investigators will ask responding firefighters. Six hours credit.

Length/Schedule: 1 day

Cost: contact Connecticut Commission on Fire Prevention and Control

Juvenile Firesetting Workshop: A Primer

Designed for fire marshals and other fire service personnel

Motivates student to start thinking about the causes of, and their response to the juvenile firesetter problem, as well as long term approaches to the issue. The workshop aims to motivate participants to pursue further training. Topics include: history of juvenile firesetting; statistics; needs assessment; program design; administrative goals; referral service budget: training; publicity and public relations; forms; legal issues: resources. Lecture, group discussion, case studies and models of successful programs in Connecticut are highlighted. Certificate of completion awarded. Five credits for fire marshals in Connecticut. No prerequisites.

Length/Schedule: 1 day: offered twice a year

Cost: \$25 registration

Creating a Juvenile Firesetter intervention Program for Your Community

Designed for fire marshals and other fire service personnel

Students are guided through the step-by-step process of setting up a juvenile firesetter program in their community or region. Group discussion and team assign-

ments are a part of this intensive five day course.

Topics include: needs assessment; program design: administrative goals: referral services; budget: training: publicity and public relations; forms; legal issues; resources. Student will identify goals, conduct a needs assessment survey, identify a support base including fundraising support, adapt existing forms and procedures to fit their program, and identify program budget needs. By the end of this program students will have a clear picture of available resources, and an organized plan for how they will proceed. Certificate of completion awarded, fire marshal credit to be determined. No prerequisites.

Length/Schedule: 35 hours (5 days): first course to be held in 1993

Cost: to be determined

Companion Skills Training

Designed for fire marshals and other fire service personnel

Prerequisite: must be companion in juvenile firesetter program

Introduces student to goals and objectives of being a companion to a juvenile firesetter. Examines the benefits and limitations of the companion role. Roleplay, written exercises and small group discussion are used. Topics include: relationship between children and firefighters; communication skills; levels of risk, confidentiality; interviewing; activities for children of different risk; referral process. Student will complete interview forms, examine case studies and identify level of risk; roleplay parent and child, identify principles of interviewing and communication between companion and child, and explain process of beginning, maintaining and terminating a relationship. Limited to 12 students. Certificate of completion awarded. Nine credits for fire marshals in Connecticut.

Length/Schedule: 12-15 hours; offered as needed or requested by local juvenile firesetter program

Cost: average \$400-\$600; negotiable depending on locale and trainer

**Department of Public Safety
Division of Fire and Building Safety
294 Colony Street
Meriden, Connecticut 06450-2098
(203) 238-6257**

Fire Marshal/Inspector Certification Course: Fire Investigation Module

Designed for law enforcement and fire service personnel; admittance by local appointing authority only

Topics include: fire investigation: point of origin: cause; interviewing and statement taking; photography; sketch maps; paper chase; collection and preservation of evidence: forensic laboratory; other agencies; media relations and public information. Also covers legal requirements, including search and seizure, rules of evidence, court room procedures, and fire statutes: explosives, including fireworks: properties of explosives: responsibility of local fire marshals; storage of explosives: transportation of explosives, use of explosives and blasting caps, fireworks and carnival regulations, and permits and licenses; principles of electricity, including heating and cooking equipment, and fire causes. Upon completion of the course, participants will be eligible to be certified as a local fire marshal, deputy fire marshal or fire inspector.

Length/Schedule: 210 hours for total certification course (7 hours/week for 30 weeks). The complete program is divided into three modules: Hazardous Materials, Fire Investigation and Life Safety Code.
Cost: none

Connecticut FAIR Plan
P.O. Box 280200
East Hartford, Connecticut 06128-0978
(203) 528-9546

Annual Seminar

No further information submitted.

Hartford State Technical College
401 Flatbush Avenue
Hartford, Connecticut 06106
(203) 527-4111

Fire Investigation

Prerequisites: General Chemistry; Physics: Heat, Light and Sound

Topics include: determination of points of origin and causes of fire; discriminating between fires of accidental and incendiary origin; handling operations at the scene; collecting and preserving evidence; recording information: scientific aids to investigation. Three credits.

Length/Schedule: one semester; contact Hartford State Technical College for details
Cost: tuition/credit: \$63 in-state; \$205 out-of-state

Norwalk State Technical College
181 Richards Avenue
Norwalk, Connecticut 06854
(203) 855-6600

Fire Investigation

Designed for fire service and insurance personnel
Prerequisites: Building Construction; Chemical Principles: Heat, Light and Sound

Topics include: determination of points of origin and causes of fires; discriminating between fires of accidental and incendiary origin: managing operations at the fire scene; collecting and preserving evidence; recording information; scientific aids to investigation. Three credit hours.

Length/Schedule: one semester: contact Norwalk State Technical College for details
Cost: tuition/credit hour: \$55 in-state; \$179 out-of-state

Thames Valley State Technical College
514 New London Turnpike
Norwich, Connecticut 06360
(203) 886-0177

Fire Investigation

Prerequisites: Building Construction; Introduction to Fire Technology

Topics include: determination of points of origin and causes of fire; discriminating between fires of accidental and incendiary origin: managing operations at the fire scene; collecting and preserving evidence; recording information; scientific aids to investigation. Three credits.

Length/Schedule: 16 weeks (one semester)
Cost: resident \$213; Rhode Island and Massachusetts residents \$307.50: non-residents \$639

University of New Haven
300 Orange Avenue
West Haven, Connecticut 06516
(203) 932-7424

Bachelor of Science in Arson Investigation

Prerequisite: high school graduate

Students majoring in arson investigation will be required to complete 15 to 21 credits in criminal justice, qualifying them for a minor in criminal justice. Students earning the B.S. in Arson Investigation must complete 126 credit hours including the university core curriculum and the following: Fire Strategy and Tactics; Essentials of Fire Chemistry with Laboratory; Principles of Fire Science Technology: Fundamentals of Fire Prevention: Building Construction Codes and

Standards, Fire Protection Fluids and Systems: Fire Detection and Control; Fire and Casualty Insurance; Arson Investigation I; Special Hazards Control; Fire-ground Management. Three credits (45 classroom hours) per class.

Length/Schedule: contact University of New Haven
cost: \$194/credit

Arson Investigation Certificate: undergraduate level

Prerequisite: high school graduate

Designed to provide those in either the public or private sector with the scientific and legal knowledge needed to analyze situations for the possibility of arson. AU students are required to complete 28 credit hours, including the following: Criminal Law: Criminal Investigation; Introduction to Forensic Science or Internship; Municipal Fire Administration: Essentials of Fire Chemistry with Laboratory; Fundamentals of Fire Prevention: Fire Detection and Control: Arson Investigation I; Arson Investigation II. Three credits (45 classroom hours) each.

Length/Schedule: contact University of New Haven
Cost: \$194/credit

Arson Investigation Certificate: graduate level

Prerequisite: Bachelors degree

Offers an opportunity for students who hold the baccalaureate degree to continue their study of arson investigation at the graduate level. Coursework consists of 12-13 credits, Students may choose any four of the following: Law and Evidence: Fire Scene Investigation and Arson Analysis; Legal Aspects of Fire and Arson Investigation: Fire and Building Codes, Standards and Practices; Fire and Casualty Insurance Practices: Dynamics, Evaluation and Prevention of Structural Fires; Selected Topics.

Length/Schedule: contact University of New Haven
Cost: \$194/credit

Arson Investigation I

A study of incendiary fires, fire deaths, and commercial fires from the viewpoint of the field investigator, with an emphasis on the value of the various aids available. Also covers the collection and preservation of evidence, interrogation methods, laws of arson, court appearances and testimony. Topics include: basic chemistry for the fire investigator; nature and behavior of fire; building construction; structural fires: field investigation:

investigation of injuries and D.O.A.'s; basic arson law for the arson investigator; commercial fire investigations: juvenile fire setters: interviews of witnesses; interrogations; confessions: law of arrest: records, reports, briefs, and sources of information; courtroom demeanor testimony: expert testimony.

Length/Schedule: contact University of New Haven
cost: \$194/credit

Arson Investigation II

Prerequisites: Arson Investigation I or Criminal Investigation

An advanced course dealing with principles and methods of investigation involved in gas fires, motor vehicle and ship fires, electrical fires, explosions, bombings and the handling of evidence and testimony by the expert investigator. Additional topics include: the physics of fire; electrical appliance investigations; bomb scene investigations; incendiary devices and timing devices; arson by electronics: forensic photography; expert witness; court appearances. Prepares the student to handle large or unusual types of fire that may be encountered; teaches public safety personnel more complicated investigative techniques not available in other courses.

Length/Schedule: contact University of New Haven
cost: \$194/credit

DELAWARE

Delaware Chapter IAAI
c/o Robert Montgomery, Jr., Secretary
159 Cook Court
Smyrna, Delaware 19977
(302) 739-4447

Regional Seminar

No further information submitted.

Delaware State Fire Marshal Office
R.D. 2, Box 166 A
Dover, Delaware 19901
(302) 739-4447

Arson Investigation

Prerequisite: must be attending a state or local police department academy

Provides the police recruit with a background of “What to do/What not to do” until the arrival of a fire investigator. Topics include: motives; arson laws and legal issues; responsibilities of various agencies; evidence recognition and collection; fatal fire investigations.

Length/Schedule: 3 hours; scheduled in accordance with various police academies
Cost: none

Delaware State Fire School
R.D. 2, Box 166
Dover, Delaware 19901
(302) 739-4773

Arson Detection

Prerequisite: basic knowledge of structural firefighting (or determined by individual's background)

Designed to train firefighters and fire officers to recognize and react properly to arson, unlawful burning and incendiary fires. Topics include arson awareness: arson laws, investigative agencies and fire setter motivation: fire scene analysis: basics of determining factors that contribute to the fire and its cause: fire officer responsibilities: duties of the fire scene officer in dealing with evidence, photography and scene sketching. Delaware State Fire School attendance certificate awarded.

Length/Schedule: 2 days
Cost: \$40 tuition: lunch provided; all other expenses are responsibility of student

FLORIDA

Brevard Community College
Florida Advanced Technology Center
250 Grassland Road Southeast
Palm Bay, Florida 32909-2299
(497) 951-1060

Fire Investigation

Introduction to investigation procedures and techniques to determine the facts, conditions and probable cause of various fires. Three credits: offered as part of a program leading to an A.S. degree in Fire Science Technology.

Length/Schedule: one semester: offered as requested by fire departments
Cost: tuition/credit: \$34 in-state; \$125 out-of-state

Broward Community College
A. Hugh Adams Central Campus
3501 Southwest Davie Road
Davie, Florida 33314
(305) 475-6865

Arson and Fire Investigation

A study of arson and investigation problems. Examines facts and figures, motives, and the role of fire departments in arson suppression. Reviews chemistry of explosives: juvenile arson problem; analysis of urban fires; automobile fires; reports; interrogation; presenting the arson case in the courtroom. Three credits.

Length/Schedule: contact Broward Community College
Cost: fees/credit hour: \$29.25 for residents; \$105.75 for non-residents

Central Florida Fire Academy
2966 West Oak Ridge Road
Orlando, Florida 32809
(407) 855-3281

Fire Cause and Origin

Fire Chemistry and Arson Investigation

Latent Investigation

Legal Issues of Fire Investigators

The courses are offered as prerequisites for taking state certification exam. State Certificate awarded.

Length/Schedule: 40 hours/course; contact Central Florida Fire Academy for details
Cost: \$50 registration/course

Daytona Beach Community College
P.O. Box 2811
Daytona Beach, Florida 32120-2811
(984) 255-8131

Fire Detection and Investigation

Topics include fire cause and origin determination; losses and records: preservation of physical evidence; scientific aids to investigation: courtroom procedure in presenting evidence. Three semester hours credit; part of a two year program leading to an A.S. degree in Fire Science Technology.

Length/Schedule: one semester; contact Daytona Beach Community College for details
Cost: tuition/credit: \$35 in-state; \$130 out-of-state

Edison Community College, Lee County Campus
8099 College Parkway, Southwest
P.O. Box 06210
Fort Meyers, Florida 33906-6210
(813) 489-9300

Fire and Arson Investigation I

Topics include: methods of determining the area of fire origin, cause, spread and location; responsibility for determining the accidental or intentional nature of a fire; correct procedures of investigation; evaluation and preservation of evidence; prosecution. Three credits; offered as part of a program leading to an A.S. degree in Fire Science Technology.

Length/Schedule: one semester (spring)
Cost: tuition/credit: \$34.75 in-state; \$129.35 out-of-state

Florida Advisory Committee on Arson Prevention
P.O. Box 1654
Winter Park, Florida 32790-1654
(407) 843-7900

Annual Seminar

The seminar addresses issues of arson prevention and suppression from both a criminal and civil standpoint, and presents an opportunity for the exchange of ideas and experiences among members of the public and private sectors. Numerous workshops are offered, on topics such as incendiary devices, techniques of investigation, expert testimony in an arson case, interplay of civil and criminal investigations, arson statutes and other issues.

Length/Schedule: 3 days: offered annually
Cost: registration: \$105 for non-members of FACAP, \$70 for FACAP members, \$25 for government employees

Florida Arson Seminar
P.O. Box 2846
Orlando, Florida 32802

Annual Florida Arson Seminar

Utilizes arson specialists and recognized experts from Florida and other parts of the nation in training sessions designed to update participants on arson-related topics. The seminar provides a unique forum for the discussion of problems in all fire investigations, and presents valuable insights into the various aspects of the crime of arson. Topics vary, examples: cause and origin, mobile home fires; automobile fires; developing

a case; expert testimony; courtroom procedures. Provides thirty two hours of training toward fire inspector recertification and thirty two hours of mandatory retraining for Florida law enforcement officers. Sponsored by the Florida State Fire Marshal's Office and other agencies.

Length/Schedule: 40 hours
Cost: approximately \$125

Florida Chapter IAAI
Jo Bob Gentile, Secretary
2302 North Wallen Drive
Lake Park, Florida 33410
(407) 746-1192

Fire and Arson Investigation Schools and Annual Seminar

Designed for law enforcement, fire service and insurance personnel

Teaches the new investigator the proper basics of fire investigation and keeps the experienced investigator informed of up to date advances and information dealing with new products and new concepts. Topics vary; examples: cause and origin; motives: case preparation and presentation; evidence collection; photography, etc. All schools are tested and can be used as courses of study toward CFI training points. All schools are accredited by the state for recertification points for Fire Inspectors.

Length/Schedule: varies from one day to a full week; the Florida Chapter has a minimum of a 1-2 day school in each district plus the week long annual seminar held in March of each year
Cost: varies depending on length of school and cost of presentations

Florida Community College at Jacksonville
11901 Beach Boulevard
Jacksonville, Florida 32216
(904) 646-2182

Fire Investigation

Designed for fire service and insurance personnel

Presents the principles of fire investigation: methods of determining area of fire origin, fire cause, and fire spread: location and preservation of evidence; interrogation of witnesses: arson detection, arson laws; case preparation and court procedures: and reports and records. Topics include: today's arson problem;

motives; role of the fire department in arson: chemistry of fire; determining origin and cause; electrical fires; rural fires; urban fires; automobile fires; explosions; the juvenile fire problem: interviews, notes, reports; interrogation; presenting your case. Three hours credit. No prerequisites.

Length/Schedule: 45 hours; offered annually
cost: \$90

Florida State Fire College
Bureau of Fire Standards and Training
11655 Northwest Gainesville Road
OCala, Florida 32675-1330
(904)732-1330

Arson Investigation Certification (4 courses)

Principles of Fire Investigation

Topics: features of matter and energy; chemical forms of matter; aspects of United States Department of Transportation hazardous materials program: chemistry of some common elements; chemistry of some corrosive elements.

Length/Schedule: 40 hours
Cost: see below

Cause & Origin

Topics: sources of ignition; electrical causes of fire; automobile, motor vehicle and ship fires: structure fires and their investigation: storage, handling and use of hazardous materials: investigation of grass and wildland fires; installed extinguishing and alert systems.

Length/Schedule: 40 hours
Cost: see below

Legal Issues

Topics: arson statute and related laws: working the fire scene: search and seizure issues; presenting a case for prosecution; courtroom procedures; expert testimony; courtroom demonstration/mock trial.

Length/Schedule: 40 hours
Cost: see below

Latent Investigation

Topics: practical applications (live burn); explosions and explosive combustion: NFPA 101, Life Safety Code: laboratory services; fire related deaths: arson as a crime: other investigative topics (elements of proof; chain of evidence; report writing; courtroom testimony): psy-

chology of firesetters; investigating arson for profit: coordinating civil and criminal investigation: interviews: informants and rewards: confidentiality and public record laws.

Length/Schedule: 40 hours
Cost: contact Florida State Fire College. Total cost for all four courses is \$772. Florida State Fire College training also available through the following certified training centers:

Broward Fire Academy
2600 Southwest 71st Terrace
Davie, Florida 33314
(305) 474-8217

Central Florida Fire Academy
2966 West Oak Ridge Road
Orlando, Florida 32809
(407) 855-3281

Charlotte County Vo-Tech Center
18300 Toledo Blade Boulevard
Port Charlotte, Florida 33948-3399
(813) 629-6819

Chipola Junior College
Fire Science Department
3094 Indian Circle
Marianna, Florida 32446
(904) 526-2761

Dade City Training Center
312 North 5th Street
Dade City, Florida 33525
(904) 521-1492

Daytona Beach Community College
1200 Volusia Avenue
Daytona Beach, Florida 320 15
(904) 255-8131

Fort Myers Training Center
2404 Anderson Avenue
Fort Myers, Florida 33901
(813) 334-6222

Fort Walton Beach Training Center
5 Hollywood Boulevard Northeast
Fort Walton Beach, Florida 32548
(904) 243-8721

Hialeah Fire Department Training Center
7590 West 24th Avenue
Hialeah, Florida 33016
(305) 824-5714

Hillsborough Community College
P.O. Box 5096
Tampa, Florida 33675-5096
(813) 253-7000

Hollywood Training Center
3401 Hollywood Boulevard
Hollywood, Florida 33021
(305) 921-3293

Indian River Community College
3209 Virginia Avenue
Fort Pierce, Florida 33450
(407) 468-4700

Jacksonville Fire Training Academy
2700 Firefighter Memorial Drive
Jacksonville, Florida 32216
(904) 645-0124

Lake County Vo-Tech Center
2001 Kurt Street
Eustis, Florida 32726
(904) 357-8222

Lively Fire Training Academy
500 Appleyard Drive
Tallahassee, Florida 32305
(904) 487-7456

Miami Beach Fire Department Training Center
2300 Pinetree Drive
Miami Beach, Florida 33140
(305) 673-7140

Miami-Dade Community College
South East Florida Academy of Fire Science
11380 Northwest 27th Avenue
Miami, Florida 33167
(305) 237-1360

Miami Training Center
3425 Jefferson Street
Coconut Grove, Florida 33133
(305) 579-6239

Naples Fire Department Training Center
977 26th Avenue North
Naples, Florida 33940
(813) 434-4736

Palm Beach County Fire Rescue
50 South Military Trail
West Palm Beach, Florida 33415
(407) 734-8309

Panama City Training Center
2111 Beck Avenue
Panama City, Florida 32401
(904) 872-3167

Pasco County Training Center
5418 Sunset Road
New Port Richey, Florida 34652
(813) 847-8188

Pensacola Training Center
239 North Spring Street
Pensacola, Florida 32501
(904) 438-4413

Pinellas Technical Education Center
St. Petersburg Campus
901 34th Street South
St. Petersburg, Florida 33711
(813) 327-3671

Port Grange Fire Training Center
P.O. Drawer 291038
Port Orange, Florida 32129
(904) 756-5401

Ridge Technical Center
7700 State Road 544 North
Winter Haven, Florida 33880
(813) 422-6402

St. Augustine Technical Center
2980 Collins Avenue
St. Augustine, Florida 32084
(904) 824-4401

Sarasota Fire Academy
400 North Beneva Road
Sarasota, Florida 33580
(813) 364-2238

Seminole Community College
100 Weldon Boulevard
Sanford, Florida 32773
(407) 323-1450

South Technical Education Center
1300 Southwest 30th Avenue
Boynton Beach, Florida 33426
(407) 369-7026

Tampa Fire Department Training Center
116 South 34th Street
Tampa, Florida 33605
(813) 227-7020

Venice Fire Academy
112 South Harbor Drive
Venice, Florida 33595
(813) 492-3156

Volusia County Fire Administration
123 West Indian Avenue
DeLand, Florida 327204619
(904) 736-5940

West Palm Beach Training Center
500 North Dixie Highway
West Palm Beach, Florida 33401
(407) 833-0815

Gulf Coast Community College
5230 West U.S. Highway 98
Panama City, Florida 32401-1041
(904) 872-3878

Fire Cause and Arson Detection

Emphasizes the investigation of fires for determination of the source of ignition and first fuel, point of origin, direction and rate of spread, and whether the cause was accidental or illegal. Florida arson laws are studied along with procedures for ensuring the admissibility of any evidence found at the scene of the fires. This includes methods of questioning the witnesses, interviewing, interrogation, and case preparation with stress on recognition of cause and evidence. Three credits.

Length/Schedule: one semester: contact Gulf Coast Community College for details
Cost: \$78.75 in-state; \$3 15 out-of-state

Hillsborough Community College
Ybor Campus
P.O. Box 5096
Tampa, Florida 33675-5096
(813) 253-7600

Arson Investigation

Covers the role of the company officer, fire prevention, and different agencies in arson investigation. Topics include methods of determining fire origin; fire cause; fire spread and evaluation of evidence; interview and interrogation techniques. Three credits.

Length/Schedule: contact Hillsborough Community College
Cost: tuition/credit: \$28 in-state: \$106 out-of-state

Indian River Community College
3209 Virginia Avenue
Fort Pierce, Florida 34981-5599
(407) 464-7676

Fire and Arson Detection

Designed for law enforcement and fire service personnel

Topics include: fire investigation: chemistry of fire and fire behavior: law of arson: firefighter role; science; causes. By the end of the course, the student will have a general knowledge of fire investigation and will be able to detect causes of fires. Three college credits, No prerequisites.

Length/Schedule: 45 hours: offered spring and fall term
Cost: tuition: \$90 in-state: \$360 out-of-state

Okaloosa-Walton Community College
100 College Boulevard
Niceville, Florida 32578-1294
(904) 678-5111

Arson Detection and Investigation

Prerequisites: sophomore standing in Fire Science Technology or employed firefighter, or permission of the instructor

An introduction to arson laws and types of incendiary fires. Students learn methods of determining fire cause, recognizing and preserving evidence, etc. Three semester hours; offered as part of a program leading to an A.S. degree.

Length/Schedule: one semester, offered as needed
Cost: fee/semester credit hour: \$23 in-state; \$92 out-of-state

Palm Beach Community College
4200 Congress Avenue
Lake Worth, Florida 33461
(407) 439-8132

Fire Investigation/Arson Detection

Designed for fire service personnel
Prerequisite: State Minimum Standards Certification

Topics: role of the firefighter in the investigation of fires: origin and cause determination, observing and preserving the fire scene, collecting fire scene information: electrical fire causes and determinations; fire behavior and expected damage from combustibles in

the area of fire origin; private and insurance investigation of the fire scene and differences in legal requirements of these agencies: role of the State Fire Marshal's Office and its requirements for fire/arson investigation; psychological profiles of firesetters and juvenile fire setters; incendiary/bomb devices: arson law; collection and preservation of evidence; preparation and presentation for court. Three credit hours.

Length/Schedule: 16 weeks: contact Palm Beach Community College for details
Cost: tuition/credit hour: \$33

Seminole Community College
100 Weldon Boulevard
Sanford, Florida 32773-6199
(407) 323-1450

Fire Investigation

Length/Schedule: one week (45 hours); contact Seminole Community College for details
Cost: tuition/credit: \$33 in-state; \$119 out-of-state

St. Petersburg Junior College
P.O. Box 13489
St. Petersburg, Florida 33733
(813) 791-2544

Arson Investigation I

Designed for fire service and insurance personnel

A study of an arson investigator's responsibility in determining the point of origin, cause and development of a fire. Topics: motives of fire setters; methods used to determine the accidental or intentional nature of a fire; correct procedures of investigation, evaluation of evidence and prosecution. By the end of the course, the student will be able to apply learned principles to conduct legal investigations of fires which may occur in his/her jurisdiction: will have acquired an understanding of how to determine the origin and cause of a given fire, and of common firesetting motives; will know how to prepare the necessary forms, sketches and reports to record the facts determined by his/her investigation. The student will be able to apply learned principles to identify, collect, and preserve evidence which may be used to prove some fact and/or occurrence. Three credit course; offered as part of Associates Degree in Fire Science Technology. No prerequisites.

Length/Schedule: 48 hours: offered annually; normally scheduled during summer semester
Cost: \$30.30/credit hour

Tallahassee Community College
444 Appleyard Drive
Tallahassee, Florida 32304-2895
(904) 488-9200

Fire Prevention and Investigation

Topics: principles of prevention and investigation; study of fire hazards of various occupancies: review of fire prevention codes: OSHA requirements for fire protection; surveying and mapping procedures. Other topics include recognition of fire hazards, engineering a solution for the hazard, enforcement of the solution, public relations as affected by fire prevention, and preservation of arson evidence. Three semester hours. No prerequisites.

Length/Schedule: one semester; offered upon request of local fire department
Cost: tuition/credit: \$30 in-state; \$113 out-of-state

Arson Investigation

Studies the role of company officer, fire prevention, and different agencies in arson investigation; methods of determining fire origin, fire cause, fire spread, and evaluation of evidence; interview and interrogation techniques. Additional topics: why fires should be investigated; chemistry of fire and fire behavior: law of arson; searching the fire scene: explosions and their characteristics; safety for the fire investigator; fatal fires; motives; recording the investigation; automobile fires; techniques of arson. Three semester hours

Length/Schedule: one semester: offered as needed on request of local fire department: also offered as independent study
Cost: tuition/credit: \$30 in-state; \$113 out-of-state

Valencia Community College, West Campus
1800 South Kirkman Road
Orlando, Florida 32811
(407) 299-5000

Fire Investigation

Study of cause and origin of fires with emphasis on fire inspector's or fire officer's role in investigative process. Deals with determination of fire cause and origin, collection of evidence and investigator's preparation for trial. Three credits: offered in conjunction with A.S. and certificate programs in Fire Science Technology.

Length/Schedule: one quarter: contact Valencia Community College for schedule information
Cost: tuition/credit hour: \$30.25 in-state; \$108.75 out-of-state

GEORGIA

**Department of the Treasury, Bureau of Alcohol,
Tobacco and Firearms
Federal Law Enforcement Training Center
(FLETC)
Glynco, Georgia 31524
(912) 267-2421**

Advanced Arson for Profit Investigative Techniques Training Program (ATF)

Prerequisite: the applicant must be a full-time public service employee whose workload is primarily focused upon the investigation/management of arson-related crimes. Although the program is not structured as a "cause and origin school", each applicant should be thoroughly familiar with cause determination, as those skills will be fundamental to the instruction provided throughout the training exercise.

Designed to enhance the professional skills of those who investigate profit-motivated and other complex arson schemes. Discussions will range from utilization of the fire scene to prosecution of the case. Since this is an advanced program, the arson investigator will be taught specialized skills for perfecting criminal cases. Instruction will be presented in the classroom and in practical exercise areas. Topics: arson task force concept; interviewing techniques; legal aspects of arson investigation; analytical techniques, including visual information analysis, link analysis, telephone toll analysis; laboratory capabilities: electronic surveillance techniques; insurance investigative techniques: financial investigative techniques: real estate investigative techniques: case management and preparation; use of expert witness. Development of the course coordinated by ATF, in cooperation with educational institutions, state and local enforcement agencies, the International Association of Arson Investigators, the International Association of Chiefs of Police, the Federal Emergency Management Agency, and the American Insurance Association.

Length/Schedule: 8 class days
Cost: \$656 (includes food and lodging)

Arson for Prosecutors (ATF)

Prerequisite: applicants must be full-time state or local prosecutors, district attorneys, states attorneys or their assistants

This state of the art training has been developed by ATF for state and local prosecutors to enhance their professional skills for prosecuting profit-motivated and

other complex arson schemes. The goal of the program is to strengthen the cooperation between investigators and prosecutors and to encourage trying arson cases based strictly on circumstantial evidence. Students will participate in course instruction ranging from an overview of cause and origin to actual trial tactics. The instruction will be presented in the classroom and in practical exercise areas. Topics: fire triangle - role of prosecutor/investigator: arson task force concept: search and seizure: cause and origin: laboratory capabilities: arson profiling.

Length/Schedule: 5 class days
Cost: contact FLETC

Advanced Explosives Investigative Techniques Training Program (ATF)

Prerequisites: limited to public safety officials (police and fire investigators) involved and experienced in the investigation of bombings and related explosives incidents. Applicants will be selected on the basis of current duties, level and extent of experience and geographic balance.

Three major subject areas (pre-planning, bomb scene processing and investigative techniques) are presented in both classroom and practical exercise areas. Topics: team concept and individual duties: initial and final explosives scene evaluations; processing the crime scene: technical resources available to the investigator: analytical techniques, including visual information analysis, link analysis, telephone toll analysis; expert witness; trends in explosive devices: the pathologist's role in bombing investigations. Developed by ATF in conjunction with the International Association of Bomb Technicians and Investigators (IABTI).

Length/Schedule: 9 class days
Cost: \$859 (includes food and lodging)

Laboratory Examinations in Arson Matters (FBI)

Designed for crime laboratory chemists analyzing arson debris

Provides instruction in appropriate instrumental as well as non-instrumental techniques used to properly collect, preserve, and transmit evidence from a fire scene: recover, isolate and identify flammable accelerants in fire debris; identify liquid accelerants and compare them with other accelerants to determine potential common origin; integrate physics and chemistry of fire into on-scene laboratory fire analysis.

Length/Schedule: four and one half days
Cost: contact FLETC

Police Arson Crime Scene Investigators (FBI)

Designed for fire and law enforcement personnel

Designed to familiarize the police officer with the basic principles of fire investigations and how they relate to arson. Instruction will include lectures on the basic principles of fire chemistry, burn patterns and sources of ignition. Actual fire scene examinations will be utilized to enhance the lecture material.

Length/Schedule: four and one half days

Cost: contact FLETC

Fire/Arson Investigation (National Fire Academy)

Priority admissions will be assigned to full-time personnel whose primary responsibility is arson investigation and/or prosecution in their community. These individuals include fire/arson investigators, law enforcement personnel, district attorneys' staff, and members of arson task forces. Admission on a space available basis will be assigned to officers who have official responsibility for arson investigation on other than a full time basis.

Defines successful methods for conducting fire investigations which culminate in prosecution for arson. Topics: point of origin and fire causes, both accidental and incendiary; motivation of the firesetter; fire scene investigation; legal aspects of fire investigation. Classroom instruction is enhanced by actual burn scene examination and case development in the National Fire Academy's Arson Fire Scene Laboratory.

Length/Schedule: 2 weeks

Cost: contact FLETC

National Wildfire Investigations Training Program

Designed to train students in a number of wildland fire investigation topic areas, such as fire case report writing, determining fire cause and origin, fire scene processing, structure and vehicle fires, and surveillance techniques.

Length/Schedule: 12 days, 2 times a year

Cost: \$369

Fullton County Public Safety Training Center
4710 Campbell Drive
College Park, Georgia 30349
(404) 762-4070

Fire/Arson Investigation I, II, III

One hundred twenty hours (3 weeks) of instruction. No further information submitted

Georgia Chapter IAAI
c/o Frank H. Carter, Secretary
Inserv South, Inc.
28 Perimeter Center East
Suite 100
Atlanta, Georgia 30346
(404) 292-7875

Fire/Arson Investigation Seminars

Offered jointly with Alabama Chapter IAAI. No further information submitted.

Georgia Fire Academy
1000 Indian Springs Drive
Forsyth, Georgia 31029-9599
(912) 993-4670

Basic Arson

Designed for fire officers, chief officers, arson investigators or potential investigators
Prerequisite: Basic Firefighter required for Georgia firefighters only

A sixteen unit course dealing with the basic aspects of arson investigation including behavior of fire; motivation of the fire setter; photography; fire spread evidence collection; report writing; point of origin; fire cause; interviews and interrogation. Includes the investigation of an actual burned structure. This course is taught by experienced arson investigators and is one of the most comprehensive arson investigation training courses available. It is recommended that the student take the P.O.S.T Advanced Arson class to complete the training necessary for final certification. Georgia Fire Academy/Georgia Public Safety Training Center certificate awarded. Peace Officer Standards and Training certificate awarded after completion of advanced portion.

Length/Schedule: 80 hours; offered once a year

Cost: none for eligible students (police, fire personnel from public organizations)

Advanced Arson

Designed for fire officers, chief officers, arson investigators or potential investigators
Prerequisite: Basic Firefighter required for Georgia firefighters only

A ten unit course dealing with advanced aspects of arson investigation including: beyond cause and origin; profit motives; practical interviewing and interrogation: investigative planning process; how to obtain assistance; link analysis charting techniques; task force concepts; case management; sources of information. Georgia Peace Officer Standards and Training certificate and Georgia Fire Academy/Georgia Public Safety Training Center certificate awarded.

Length/Schedule: 40 hours; once a year
Cost: none for eligible public safety employees

Fire/Arson Detection (National Fire Academy course)

Designed for law enforcement, fire service and insurance personnel with responsibility for cause determination
Prerequisite: Basic Firefighter required for Georgia firefighters only

Beginning with an examination of motives of fire setters, this course progresses through the investigation process and into the prosecution of the crime of arson. Includes sections on determining point of origin, an intensive study of fire cause determination methods, special procedures necessary for fatal and vehicle fires, and the legal considerations that the fire/arson investigator must keep in mind. The course has been developed with consideration for the requirements of NFPA 1021: Fire Officer, and will help in the continued professional growth of the student within that framework. NFA hand off certificate; Georgia Fire Academy/Georgia Public Safety Training Center certificates awarded.

Length/Schedule: 16 hours; offered 6-10 times a year
Cost: none for eligible students

Southeastern Arson Seminar
Georgia Center for Continuing Education
The University of Georgia
Athens, Georgia 30602-3603
(706) 548-1311

Southeastern Arson Seminar

Designed for those with management level responsibility for initiating fire investigations; law enforcement, fire service, insurance investigators, military and government personnel, trial and prosecuting attorneys

Topics vary: examples: beyond origin and cause: on-scene investigations; electrical fires; bomb scene procedures; task force concept; arson profiling, interviewing and interrogation: case management; juvenile fire setters: mock trial; surveillance techniques; accelerant-

sniffing canine. Optional testing; recognized for P.O.S.T. accreditation. Sponsored by the University of Georgia in association with Safety Fire Division, Georgia Insurance Commissioner's Office.

Length/Schedule: 1 week; offered annually
Cost: \$175 (tuition, lunch each day and one dinner)

IDAHO

Boise State University
1910 University Drive
Boise, Idaho 83725
(800) 824-7017

Fire Cause Determination

Prerequisite: permission of the instructor

Designed to provide the student with the knowledge and skills needed to correctly determine fire causes. Topics include the fire department's responsibility; the fire company's role; firesetters; preserving and documenting evidence for the investigator; courtroom testimony. One credit.

Length/Schedule: one semester
Cost: \$68/credit hour (1-7 credits)

Idaho Fire and Arson Investigators Association
(Idaho Chapter IAAI)
c/o Ben Estes, Secretary
P.O. Box 4024
Pocatello, Idaho 83205-4024
(208) 234-6203

Annual Fire/Arson Investigation Seminar

Designed for law enforcement, fire service and insurance personnel

Topics vary from year to year: examples: interviewing techniques, juvenile fire setters etc. Testing is provided for credits toward investigator certification. No prerequisites.

Length/Schedule: 3 days: held in November of each year
Cost: generally less than \$200

Idaho State Fire Marshal
500 South 10th Street
Boise, Idaho 83720
(208) 334-4370

Fire/Arson Investigation

Designed for law enforcement and fire service personnel

Prepares the average police officer or firefighter to recognize a suspicious fire and proceed with the basic origin and cause investigation. Topics: the arson problem; the arson solution; making arson investigation work; overview of the arson investigation process; legal aspects of arson; psychological aspects of arson; chemical and physical aspects of arson; origin and cause determination introduction: identifying the point of origin; fire cause determination: data collection methods; interviewing and records search; final report preparation; trial preparation and testimony; arson investigation planning; arson task force leadership; building construction for arson investigators. Certificate of completion issued through the State Fire Marshal's Office with credit given by P.O.S.T. and Fire Training Service. No prerequisites.

Length/Schedule: 17 units of instruction (94 hours); offered at least four times a year, depending on how many course modules are requested in one training session

Cost: none

National Park Service
U.S. Department of Interior
Branch of Aviation and Fire Management
3056 Elder Street, Suite A
Boise, Idaho 83705
(208)334-1080

Wildland Fire Cause and Determination

Designed for: law enforcement and fire service personnel

Prerequisite: completion of S-190 Introduction to Fire Behavior is desirable, but is not necessary

Topics: problem identification; preparation for investigation, including fire behavior review, identification and observation, investigation kit; fire scene activities, including arrival at scene, burn patterns and indicators, origin determination and protection, cause classes, ignition devices and arson motives, searching the origin, collection and preservation of evidence, photography and scene sketching; case preparation, including review of legal system, first approach, interviewing witnesses, report writing and case files, courtroom demeanor; field exercises, including burn box, origin search. The student will be required to gather and identify equipment and supplies required to conduct a wildfire investigation: recognize and record potential and key information about the fire; determine the origin

and cause of the fire; properly collect and preserve any evidence which can be used to prove fire cause: interview witnesses and obtain suspect information: prepare and write the necessary reports to properly record the facts determined by the investigation: describe how to make a professional appearance and present testimony before a judge and/or jury. National Wildfire Coordinating Group certificate (or that of host agency) awarded.

Length/Schedule: estimated 40 hours; schedule variable, as the course will be presented by many agencies throughout USA; package available through NWCG, Publications Management System, 3905 Vista Avenue, Boise, ID 83705

Cost: depends on host agency

ILLINOIS

Belleville Area College
2500 Carlyle Road
Belleville, Illinois 62221
(618) 235-2700

Fire and Arson Investigation I

Designed for law enforcement, fire service and insurance personnel

Prerequisites: none that are restrictive: recommend knowledge and experience with fire behavior

Topics: fire behavior: building construction; points of origin; accidental fire causes: incendiary fire causes; vehicle fires: motivation of the fire setter. Three credit hours.

Length/Schedule: 48 hours: normally offered each fall and spring semester

Cost: \$130 plus text

Fire and Arson Investigation II

Designed for law enforcement, fire service and insurance personnel

Prerequisites: Fire and Arson Investigation I or its equivalent

Topics: legal aspects: interviews and interrogations; field notes and report writing; fire scene investigations; photography; sketching: evidence collection and preservation: forensic lab services: fatal fires. Three credit hours.

Length/Schedule: 48 hours: offered each fall and spring semester

cost: \$130 plus text

College of Dupage
22nd and Lambert
Glen Ellyn, Illinois 60137
(708) 858-2800

Fire Investigation

Familiarizes the student with the basics of fire scene investigation; determination of cause and origin in relation to natural, accidental and incendiary fires. Teaches techniques of search and collection of physical evidence, and care and handling of evidence from the fire scene to the crime laboratory. Topics: fire behavior chemistry of fire; structural fire patterns; detection of arson; role of investigator; role of crime laboratory. Five quarter credits; offered as part of a program leading to an A.A.S. degree.

Length/Schedule: 11 weeks; offered annually
cost: \$110

Elgin Community College
1700 Spartan Drive
Elgin, Illinois 60123-7193
(708) 697-1000

Arson Investigation

Prerequisites: Introduction to Fire Science, Fire Prevention Principles I, Building Construction

Topics: the history, development and philosophy of fire investigation and detection. Includes inspection techniques; gathering of evidence and development of technical reports; fundamentals of arson investigation; processing of criminal evidence; criminal procedures related to various local and state statutes. Three semester hours; offered as an elective in a two year program leading to an A.A.S. degree in Fire Science and Safety.

Length/Schedule: one semester; offered on demand
Cost: tuition/semester hour: \$36 in-district; \$110.42 out-of-district; \$142.69 out-of-state

Illinois Chapter IAAI
c/o Carl Dropka, Secretary
2331 South Des Plaines Avenue
North Riverside, Illinois 60546
(708)447-1981

Annual Seminar and Regional Seminars

No further information submitted.

Illinois Fire Inspector Association
c/o Wayne Parthun
North Maine Fire Protection District
9301 Potter Road
Des Plaines, Illinois 60016
(708) 297-5020

Juvenile Firesetter Program (2 day seminar)

Designed for law enforcement, fire service and insurance personnel

Topics: defining the problem; the juvenile - psychology and developmental issues; efforts to address the issue; interviewing juveniles and their parents; legal considerations; networking and referral; developing a local program; intervention programs; program implementation. Students will be able to infer the level of the juvenile firesetting problem in their communities, having been shown the Illinois and national statistics. The student will learn the characteristics of a typical youth, and be able to identify those characteristics that are not typical of a given age group; identify some of the positive and negative rewards for a youth in acting out as a firesetter; learn the basic fundamentals of a juvenile firesetting program, including the media available to teach themselves and others in their department how to develop a program; demonstrate the techniques of interviewing different aged youths through role playing; demonstrate the use of screening interviews and how they are scored; identify some of the basic issues regarding the rights of juveniles; be able to identify the referral options available in their community from a typical list of local agencies; understand how to develop a simple network among those agencies and their department; indicate progress in designing and implementing an intervention program for a juvenile firesetter. Certificate awarded by International Fire Inspectors' Association. No prerequisites.

Length/Schedule: 2 days (16 hours); held on request throughout the state
Cost: contact Illinois Fire Inspector Association

Juvenile Firesetter Program (1 day seminar)

Designed to promote awareness of the juvenile firesetter problem and to provide basic information.

Length/Schedule: 1 day
Cost: contact Illinois Fire Inspector Association

Illinois Valley Community College
2578 East 350th Road
Oglesby, Illinois 61348-1099
(815) 224-2720

Fire Investigator

Prerequisites: Firefighter I, II course

This course is based on three modules. Modules I and II must be taken consecutively. Module III is designed for those persons who do not intend to take the state's Arson Investigator course. Attention will be paid to the legal as well as the procedural requirements for investigating fires. Three semester hours.

Length/Schedule: offered on demand

Cost: tuition/credit: \$30 in-state; \$90 out-of-state

International Fire Photographers Association

P.O. Box 8337

Rolling Meadows, Illinois 60008

(708) 394-5835

Annual Training Conference

Prerequisites: working knowledge of photographic equipment and fire scene and investigative photography

Designed to promote professionalism in the field of fire and investigative photography; promote harmonious relations between fire service, law enforcement and related agencies and news media: encourage and implement the exchange of technical information. Topics include: video production; filming and editing: dealing with media communications/relations: legal aspects of photography; testifying: evidence documentation; responsibilities; public relations/education; advanced use of electronic flash; portraits. Subject matter will vary with each conference, but remain in the fire and investigative photography field. Classes are hands on. Student will gain updated knowledge of photographic equipment and technical aspects of photography; and will receive working knowledge and field experience in fire and investigative photography. Certificate of completion awarded.

Length/Schedule: 3-4 days: held annually in July

Cost: averages \$100-\$135, including meals; lodging \$40-\$65/day

Investigations Institute

2155 Stonington Avenue, Suite 118

Hoffman Estates, Illinois 60195

(708) 882-1233

Fire, Arson and Explosion Investigation (Independent Covers Home Study Course)

Designed for law enforcement, fire service and insurance personnel

Prerequisites: enrollee may be a member of an organ-

ized fire or police department or an employee of an insurance company, a State Fire Marshal's office, or a law firm; or must be engaged in the fire prevention, fire investigation, or related fields, or must be seeking training to enter these professions

Topics: the purpose of the investigation: preparing for the investigation: fire experts: chemistry of fire; spread of fire; fire hazards; searching the fire scene; explosions: the complete fire investigation: fire photography: diagramming; taking notes; interviewing witnesses; the fire laboratory; origin; cause: ignition sources; subrogation; product liability; responsibility for fires; fire statistics; fire codes and standards: flashover; electrical fires; static electricity: lightning: vehicle, aircraft, and boat fires; chemical fires; cutting and welding fires; liquid petroleum gas fires and explosions; forest and grass fires; smoke and carbon monoxide: flammable liquids: bombs and explosives; incendiary devices: arson: arson motives: the pyromaniac; the firebug; the fraud fire setter: interrogating suspects; confessions in arson cases; how fire cases are won or lost; the fire investigation report: courtroom testimony. Upon completion of this course, the graduate will have received training which will assist in preparing him to perform the following: investigate all types of fires and explosions; determine the cause and origin and affix the responsibility; recognize suspicious fires and prove arson; properly identify, collect, analyze and preserve evidence: testify in court and at depositions; inspect and diagram the fire scene: properly utilize the forensic science laboratory: analyze and trace the spread of fire; interview witnesses and interrogate suspects: take written statements; prepare complete reports: conduct bombing incident investigations. Upon satisfactory completion of the 12-lesson plan and final examination, as determined by test grades and the Investigations Institute staff, the student will be awarded a certificate of qualification.

Length: normally approximately 4 months: extensions possible

Cost: \$875 (\$775 if total is paid at time of enrollment)

Joliet Junior College

1216 Houbolt Drive

Joliet, Illinois 60436

(815) 740-2340

Fire Investigation

Covers techniques and procedures for the investigation of fires; determining the origin and cause of fires; fire behavior, chemistry of fire; structural fire patterns; detection of arson; role of the investigator; role of the crime laboratory. Additional topics: building materials and construction; fuels: fire patterns of outdoor fires;

sources of ignition; clothing and fabric fires; searching the fire scene; interrogation of witnesses; Illinois Crime Laboratory; the legal aspect of arson; arson devices; explosions associated with fires; bombs. By the end of the course, the student will be capable of conducting a fire investigation and be able to establish the cause and origin of the fire. The student will demonstrate his/her knowledge by examination and practical application. Three credit hours. No prerequisites.

Length/Schedule: 16 weeks, 3 hours a week; offered at least annually; more frequently on demand
Cost: approximately \$120 for tuition and books

Lewis and Clark Community College
5800 Godfrey Road
Godfrey, Illinois 62035-2466
(618) 466-3411

Fire and Arson Investigation I

Designed for law enforcement and fire service personnel
Prerequisites: Certified Firefighter II or permission of instructor

Provides basic principles, techniques and skills for fire and arson investigators. Topics include fire behavior; recognition of accidental and incendiary fire causes; determining points of origin; investigating vehicle fires. Three credit hours: offered as part of a two year program leading to an A.A.S. degree in Fire Science.

Length/Schedule; one semester; contact Lewis and Clark Community College for details
Cost: tuition/semester hour: \$30 in-district: \$87.61 out-of-district: \$156.30 out-of-state

Fire and Arson Investigation II

Prerequisite: Fire and Arson Investigation I

Provides basic principles, techniques and skills for fire and arson investigators. Topics include fire scene investigative techniques; legal aspects of fire investigations; principles of interviewing and interrogation; the investigation of fire fatalities. Three credit hours; offered as part of a two year program leading to an A.A.S. degree in Fire Science.

Length/Schedule: one semester: contact Lewis and Clark Community College for details
Cost: tuition/semester hour: \$30 in-district; \$87.61 out-of-district; \$156.30 out-of-state

National Association of Fire Investigators
P.O. Box 957257
Hoffman Estates, Illinois 60195
(312) 427-6320

National Fire and Explosive Investigation Training Program

Designed for law enforcement, fire service and insurance personnel

Designed to increase the knowledge and improve the skills of persons engaged in the investigation and analysis of fires, explosions and arson, or in the litigation which ensues from such investigations. Topics: dynamics of fire investigation: chemistry and physics of fire behavior; science of fire dynamics; basic and advanced fire pattern analysis: safety at the fire scene: fire/explosion scene investigation techniques; searching and diagramming the fire scene; photography in fire and explosion investigations; collection and preservation of evidence: origin determination; evaluation of fire causes - failure analysis; electricity and fire investigation; determining electrical fire causes: explosion dynamics and scene investigation: investigating bombings and explosive incidents; investigating chemical incendiaries: effective fire case testimony. Provides the student with the minimum level of knowledge necessary to comply with NFPA 921, NFPA 907, and to conduct fire and explosion investigations. Continuing education credits offered through Eastern Kentucky University. Certified Fire and Explosion Investigator and Certified Fire Investigation Instructor Certification Examinations are offered. No prerequisites.

Length/Schedule; 40 hours; offered annually; next scheduled in August, 1993; additional regional offerings scheduled in March 1993

Cost: \$360 for NAFI members: \$395 for non-members: includes all materials and text book (meals, transportation, lodging additional)

Forensic Fire Science and Technology Laboratory Training Seminar

As an adjunct to the annual National Fire, Arson and Explosion Investigation Training Program, this special one-day session is designed to introduce the fire and explosion investigator to the uses and benefits of a modern, fully-equipped forensic fire science and technology laboratory. Topics: general laboratory procedures; laboratory safety; thermodynamics; chemistry: weights and measures: codes and standards testing research; litigation testing; courtroom demonstrations: evidence handling and control; specific standards testing: flash point; fire point; ignition temperature: ignition and burning characteristics of materials; still

photography and video tape; lab notes and reports. Students will be given the opportunity to try actual hands-on techniques in the laboratory.

Length/Schedule: one day: offered in conjunction with annual meeting in August

Cost: \$125; includes materials (meals, transportation, lodging additional)

National Insurance Crime Bureau
c/o Dick Baldwin
10330 South Roberts Road
Palos Hills, Illinois 60465
(800) 447-6282

Arson for Profit

Topics: arson for profit; insurance fraud; paper trail.

Length/Schedule: offered on request; contact National Insurance Crime Bureau for details

Cost: contact National Insurance Crime Bureau

Northern Illinois Arson Investigators
c/o Terry Pitkus
12605 Ventura
Rockford, Illinois 61111
(815) 984-5991

Annual Conference

No further information submitted.

Northwestern Traffic Institute
P.O. Box 1409
Evanston, Illinois 60204
(800) 323-4011

Arson Investigation for Public Safety Agencies

Designed for law enforcement, fire service and insurance personnel

Prerequisite: currently employed in the law enforcement/fire science fields; insurance personnel welcome

Topics: conducting origin and cause investigation for fires and explosions; step by step procedures used to collect evidence, verify the cause, interview witnesses, video tape and photograph the fire/crime scene: the study of building construction; the chemistry of fire; characteristics of burn and char patterns. By the end of the course, the student will be able to complete an accurate origin and cause investigation, and understand burn and char patterns which may indicate an incendiary act, electrical/mechanical failure, or an accidental fire. The student will be given an overview of current

investigation methods. This course is tested and a certificate is issued by The Northwestern Traffic Institute. (Offered in cooperation with R. Schwarz and Associates.)

Length/Schedule: 3 days; offered annually in early June

Cost: contact Northwestern Traffic Institute

Oakton Community College
1600 East Golf Road
Des Plaines, Illinois 60016
(708) 635-1861

Fire Investigation

Prerequisite: Introduction to Fire Science course recommended

Offers an analysis of the causes of fires and the relationship of fire characteristics and traces to these causes. Includes recognition of equipment failures responsible for fires: incendiary fires; the collection, preservation and documentation of evidence substantiating fire causes; interrogation techniques in fire investigations: cooperation of fire investigating agencies. Three credits.

Length/Schedule: one semester; offered annually; next scheduled in fall semester 1993

Cost: approximately \$100

Prairie State College
202 South Halsted Street
Chicago Heights, Illinois 60411-1275
(708) 756-3110

Arson Investigation

Prerequisite: Fire Science Technology 101

Acquaints the student with basic investigative techniques used in examining an arson case from its origin to a successful conclusion in the court system. Topics include: motives for arson; determining origin; scientific aids in investigation; interviews; statements; reports; interrogation; presentation of the case in court. The course is of particular significance for firefighters, police, and insurance investigators.

Length/Schedule: contact Prairie State College

Cost: tuition/credit: \$50 in-district; \$110 out-of-district; \$147 out-of-state

Property Loss Research Bureau
1501 Woodfield Road
Suite 400 West
Schaumburg, Illinois 61701-4980
(708) 330-8650

Annual Property Loss Managers Conference

Prerequisite: must be employed by (or in behalf of) a property insurance company

A continuing education conference aimed at senior adjusters and loss managers. The conference generally includes a section on arson and fraud. Topics include: paper trail; laws from civil standpoint; subrogation training; legal, financial, and procedural aspects of which the insurance carrier must be aware.

Length/Schedule: three day conference; arson section length varies from 8-24 hours: held annually in the spring
Cost: no cost for PLRB member companies; fee for non-members (contact Property Loss Research Bureau for details)

R. Schwarz and Associates, Ltd.
3413 Greenbriar Drive
Glenview, Illinois 60025
(708) 729-1270

Related Sciences of Fire Investigation

Designed for law enforcement, fire service and insurance personnel

Prerequisites: basic knowledge/education pertaining to fire behavior and the characteristics of burn and char patterns

Expands the knowledge of the fire technician/investigator by presenting fire science-related fields and experts used to verify the investigator's findings. Includes laboratory procedures and other scientific methods used by electrical/mechanical engineers, pathologists etc. Topics: origin and cause investigations of fires and explosions in structures and vehicles; photographing the fire/crime scene; study of metals: study of plastics and wood; pathology; electrical/mechanical failures: burning, heating, melting, and distortion characteristics found in fires and explosions, which may indicate an incendiary act; behavior of fire. Enables students to conduct their own origin and cause investigations using the step by step methods they have learned. By the end of the course, students will be able to recover physical items necessary to establish fire/explosion cause. Tested on all materials presented.

Length/Schedule: 3 day course (March) and 5 day course (September); each offered annually
Cost: \$100/day (tuition, handout materials, book); food and lodging extra

Vehicle Burn Seminar

Prerequisite: currently working in the fire investigation field

A hands-on program in which teams of investigators investigate and verify the origin and cause of a vehicle fire, collect evidence, photograph the vehicle and the fire scene and present a verbal report of their findings. Students view video tape footage of an actual vehicle burn, and observe the burning of two to four vehicles. Tested. Certificate awarded.

Length/Schedule: three days; offered once every five years; next session in May 1993
Cost: \$395 (includes handouts, lunch in the field, film, film processing); food and lodging extra

Richland Community College
One College Park
Decatur, Illinois 62521
(217) 875-7200

Fire Investigation

Prerequisite: Introduction to Fire Science course or permission of the Social Science Division Chair

Covers techniques and procedures for the investigation of fires. Topics: origin and causes of fire; fire behavior: chemistry of fire; structural fire patterns; detection of arson: role of the crime laboratory relationship with law enforcement personnel. Three credit hours: offered as part of a two year Fire Science program leading to an A.A.S. degree.

Length/Schedule: one semester; offered as needed
Cost: tuition, fees/credit hour: \$29.30 in-district; \$128.98 out-of-district; \$188.68 out-of-state

Rock Valley College
3301 North Mulford Road
Rockford, Illinois 61111
(815) 654-4250

Fire Investigation

Studies problems and techniques of fire investigation and arson investigation with emphasis on the application and assistance of various scientific aids to the investigation. Three credits; offered as part of an A.A.S. degree program in Fire Science.

Length/Schedule: one semester: contact Rock Valley College
Cost tuition/credit hour: \$35 in-district; \$113.67 out-of-district; \$182.63 out-of-state

South Suburban College
15800 South State Street
South Holland, Illinois 60473
(312) 596-2000

Arson Investigation

Prerequisite: Introduction to Fire Technology

Presents basic arson investigation techniques required to bring a case from its origin to a successful conclusion in the court system. Topics: origin and cause of fire; fire behavior: chemistry of fire; structural fire patterns; detection of arson; role of the investigator in court. Three credits; offered as an elective in a program leading to an A.A.S. degree in Fire Science.

Length/Schedule: one semester; contact South Suburban College for details
Cost: tuition/semester hour: \$40.50 in-district; \$139.97 out-of-district; \$192.75 out-of-state

Southern Illinois Arson Investigators Association
9510 Collinsville Road
Collinsville, Illinois 62234
(618) 344-4981

August F. Mazzone Fire and Arson Conference

Prerequisite: must be active in law enforcement, fire service or insurance industry

Designed to train investigators from a variety of backgrounds and with varying expertise. Provides an opportunity for attendees to share information and experience. Focus varies each year: includes timely topics in all fields of fire investigation: normally, there is a workshop in each of the professional categories, i.e., law enforcement, insurance etc. Usually includes basic origin and cause refresher and accidental fire causes. Courses are geared to give the first-time attendee initial contact with the world of investigators, while offering the seasoned investigator training towards CFI certification or renewal. Certificate of attendance to all who attend. A separate letter, signed and sealed with association seal is given to all who take exam (pass/fail shown on the letter).

Length/Schedule: 3 days; held annually the weekend after Raster
Cost: approximately \$95 (\$175 with lodging)

State Community College
601 James R. Thompson Boulevard
East st. Louis, Illinois 62201
(800) 826-4951

Fire Investigation

Topics: principles of fire investigation; methods for determining points of origin: path of fire travel; fire causes; motives and methods for fire setting; recognizing and preserving evidence; arson laws: types of arson fires; court testimony: reports and records. Three credit hours; offered as part of a two year program leading to an A.A.S. degree in fire science.

Length/Schedule: one semester; contact State Community College for details
Cost: tuition/semester hour: \$24 in-state; \$154 out-of-state

Third District Fire Investigators
684 Wentworth
Calumet City, Illinois 60409
(708) 891-8145

Annual Third District Fire Investigators Seminar

One major current topic is addressed each year as the focal point of the first day; variety of topics, all related to investigation, on second day. Provides training that has optional testing for CFI credit. Credits awarded per hour, based on testing.

Length/Schedule: 8-10 hours; held the fourth Friday and Saturday of February each year
Cost: \$40-\$45

Triton College
2000 Fifth Avenue
River Grove, Illinois 60171
(708) 456-0300

Arson

Fire causes and detection. Covers the history, development and philosophy of fire investigation, including inspection techniques. Also presents criminal procedures related to various local and state statutes. Three credits: offered as part of an A.A.S. degree program in Fire Science Technology.

Length/Schedule: one semester; contact Triton College for details
Cost: tuition/semester hour: \$36.50 in-district; \$120.95 out-of-district; \$185.78 out-of-state

**University of Illinois
Illinois Fire Service Institute
11 Gerty Drive
Champaign, Illinois 61820
(217) 333-4215**

Fire Arson Investigation: Modules I, II, III

Prerequisite: member of the Illinois fire or police service; others on a space available basis. Fire service required to attend all three modules and Certified Fire Fighter II. Police service required to attend Modules I and II and pass fire fighter by-pass exam.

Provides instruction in basic fire investigation to the Illinois fire and police services to ensure graduates are familiar with the techniques needed to conduct fire investigations within their jurisdictions. Offers basic information on proper fire investigation techniques. Topics: fire behavior; building construction; point of origin; accidental and incendiary fire cause: electrical fire investigation: sketching; vehicle fire; motives: interviewing; legal aspects; explosives; photography; fatal fires: communication techniques: evidence; link analysis: arson for profit. Fire Investigator certification awarded through the Illinois Office of the State Fire Marshal.

Length/Schedule: 40 hours/module (120 hours total); modules are offered three times a year: contact Illinois Fire Service Institute for details
Cost: Illinois fire and police: \$150; others: \$750; (does not include meals, lodging or transportation)

**Waubonsee Community College
Illinois Route 47 at Harter Road
Sugar Grove, Illinois 60554-0901
(708) 466-4811**

Fire Investigation

Designed to provide basic training in the principal aspects of fire investigation. Topics include basic fire chemistry; scene examination: determination of origin and cause: recognition of incendiarism: follow-up investigation: motivation of fire setters: legal aspects (some lab activities). Three semester hours: offered as part of a course of study leading to a Fire Science Certificate of Achievement. No prerequisites.

Length/Schedule: one semester: contact Waubonsee Community College for details
Cost: tuition/semester hour: \$37 in-district; \$131 Illinois out-of-district; \$162.33 out-of-state

**Western Illinois University
Educational Broadcasting and Independent Study
305 Memorial Hall
Macomb, Illinois 61455
(309) 298-2182**

Incendiary Fire Analysis and Investigation

(Independent Study)

Designed for fire service personnel

Topics: chemistry of fire; fire propagation and development: incendiary fire susceptibility; incendiary fire motivation; psychological and social motives: incendiary fire detection: investigative techniques; constitutional issues affecting fire investigation; the arson trial; arson investigation training: education and ethics: arson information management systems; arson prevention. Three semester hours of credit. This course is offered as an Independent Study Program course which students complete on their own schedule.

Length/Schedule: one semester (6 months); usually offered during spring semester
Cost: approximately \$200, plus textbooks and study guides

INDIANA

**Barker and Herbert Analytical Labs, Inc.
207 Maine Street
New Haven, Indiana 46774
(219) 749-0124**

or Michigan office:

**Jack Sanderson
820 Lions Park Drive
St. Joseph, Michigan 49085
(616) 983-4465**

Investigation of Gas and Electrical Appliance Fires

Designed for law enforcement, fire service and insurance personnel

Prerequisites: previous fire investigation training and experience; class limited to 30 students

Seminars take place in the engineering laboratory of Barker and Herbert Labs, and are a hands-on experience. Gas and electrical appliances and distribution systems are covered in depth. Students see how appliances work, how they can fail (or be made to fail by arsonists), and how they cause fires. Participants witness approximately 30 demonstrations of product failures and examine several dozen appliances and

components to see if they can determine if, and why, they caused a fire. Familiarizes fire investigators with the functions and safety features of gas appliances including water heaters, furnaces, and dryers, as well as electrical appliances including dryers, space heaters, coffee makers, heat tapes and cables. Exposes students to non-destructive testing. Topics: function, failures and fires of gas and electrical appliances: functioning of gas regulators and valves, water heaters, furnaces and dryers, electrical over-current: high resistance connections; arc tracking: automatic coffee makers: space heaters; heat tapes. Certification awarded indicating 16-20 hours of training. Course includes notebook of over 100 pages of original articles and diagrams.

Length/Schedule: 2 days (weekend); offered twice in the fall and the spring of each year
Cost: \$300 registration: meals and lodging, less than \$100

Advanced Investigation

Designed for law enforcement and fire service personnel

Prerequisites: previous fire investigation training and experience: employment in the field; class size is limited

Exposes investigators to more sophisticated techniques used by arsonists. Topics: advanced techniques employed by arsonists: using appliances to set fires; burning characteristics of various accelerants; use of common time delay mechanisms; unusual arson techniques we have seen and tips on how to detect them. By the end of the course, the student will be aware of many new ways in which fires can be set, often to give the appearance of an accidental fire. Certificates awarded for 16-20 hours of arson investigation training.

Length/Schedule: 2 days (weekend); offered twice in fall of 1993, possibly once in spring of 1993; contact Barker and Herbert Labs for details
Cost: \$300 registration; meals and lodging, less than \$100

Indiana Arson and Crime Association
c/o Mike Thomas
State Farm Insurance
6103 East 86th Street
Indianapolis, Indiana 46250
(317) 845-8514

Fire/Fraud Investigation Seminars

Topics vary, based on needs of requesting agency. Examples: cause and origin; chemistry of fire; insurance

issues; fraud; interviewing; bomb investigation: prosecutor's training. Tested; CFI compatible. Continuing education units are available for weeklong seminars.

Length/Schedule: several weekend seminars offered each year; occasional week long seminars offered, contact Indiana Arson and Crime Association for details
Cost: varies

Indiana Chapter IAAI
do Steve Cook, Secretary
615 North Dequincy Street
Indianapolis, Indiana 46201
(317) 351-9804

Arson Investigation Seminars

Designed for law enforcement, fire service and insurance personnel

Designed to disseminate current information and techniques to fire investigators in the public, private, and insurance sectors. Exposes the attendees to various aspects of fire investigation and strengthens their investigative skills. Various topics: physical and chemical considerations of fire investigation; electrical considerations in fire investigations; fire reconstruction; photography; the identification of fraud; visual investigation analysis; legal considerations; kinesic interview techniques; evidence collection and preservation; fire science; insurance considerations. Some seminars and courses are tested. No prerequisites.

Length/Schedule: 1-5 days: periodically sponsored or co-sponsored with the Indiana Arson and Crime Association and the Indiana State Fire Marshal's Office. No set schedule; offered as often as chapter can organize and as demand dictates.
Cost: registration: approximately \$25 for a 1 day seminar, approximately \$150 for 3-5 day seminar; hotels average \$75-\$100/night

Indiana Fire Instructors Association
424 Drake Road
Kendallville, Indiana 46755

Fire/Arson Investigation Classes

Designed for law enforcement and fire service personnel

Specialty classes for arson and fire investigators at Indiana Fire Schools designed to upgrade knowledge level and create a better understanding of the craft. Certificate awarded.

Length/Schedule: 6 or 12 hour classes: 6 locations:
New Albany (September): Fort Wayne (end of
September): Lafayette (October): Vincennes
(November); Chesterton (March); Indianapolis (April-
May)
Cost: approximately \$25/day

**Indiana State Fire Marshal Office
Indiana Government Center South
402 West Washington, E241
Indianapolis, Indiana 46204
(317) 232-2222**

Sixty Four Hour Master Fire/Arson Course

Designed for law enforcement and fire service
personnel
Prerequisite: involved in public safety

This course is an adaptation of the National Fire
Academy's course. Certificate of completion awarded.
Certification as master firefighter in fire/arson is
awarded if the student has five years experience and is
certified as a firefighter first class.

Length/Schedule: 4 weekends; offered on request with
a minimum of 25 students and sponsoring department
or agency
cost: \$75

Twelve Hour Arson Investigation Course

Designed for law enforcement and fire service
personnel

A scaled down version of the sixty four hour course.
Geared toward awareness as opposed to actual investi-
gation techniques. By the end of the course, students
will be aware of arson related issues, and characteristics
of suspicious fires. They will have enough knowledge
to assess the need for a more thorough investigation.

Length/Schedule: 1 day; offered on request throughout
state
Cost: none

**Indiana Vocational Technical College, Fort Wayne
3800 North Anthony Boulevard
Fort Wayne, Indiana 46805
(219) 480-4292**

Fire/Arson Investigation

Exposes students to fire/arson investigation. Study is
focused on the responsibilities of the firefighter, the
investigator, and the department in fire scene investiga-
tions. Topics include: fire cause and loss, collection

and preservation of evidence, and determination of fire
origin, with emphasis on the application of various
scientific aids that assist in the investigation. By the
end of the course, the student will be able to: describe
the conduct of an investigation; take appropriate notes;
locate and interview witnesses; secure signed state-
ments; locate sources of information: demonstrate use
of records; describe surveillance techniques; trace cause
and origin: demonstrate techniques of obtaining evi-
dence: describe the chemistry of fire; apply the laws
associated with arson; describe courtroom procedures.
Three credits. No prerequisites.

Length/Schedule: 16 weeks; schedule varies, usually
held at night
Cost: \$50.30/credit hour

**Indiana Vocational Technical College, Indianapolis
One West 26th Street
P. O. Box 1763
Indianapolis, Indiana 46206-1763
(317) 921-4800**

Fire/Arson Investigation

Focuses on the responsibility of the firefighter, the
investigator, and the department in fire scene investiga-
tions. Topics include fire cause and loss, collection and
preservation of evidence and determination of fire
origin, with emphasis on the application of various
scientific aids that assist in investigations. Three
credits; offered as part of a two year program leading
to A.A.S. degree.

Length/Schedule: course schedule arranged to meet
firefighter's working schedule; contact IVY Tech for
details
Cost: tuition/credit: \$50 in-state; \$92 out-of-state

**Marion County Prosecutor's Office and
Indiana Chapter IAAI
c/o Peter Beering
Indianapolis Department of Public Safety
200 East Washington Street, Suite 190
Indianapolis, Indiana 46204-3327
(317) 327-5257**

Prosecutor's Arson Seminar

Topics: investigator safety: investigating hazardous
materials fires; how to run an undercover investigation:
how not to run an undercover investigation: narcotics
and arson - a dangerous mixture. Tested; seminar has
been certified for attorney continuing legal education
credits.

Length/Schedule: 1 day: offered annually in the fall
Cost: \$50 IAAI members; \$100 non-members
(includes lunch)

**National Association of Mutual Insurance
Companies (NAMIC)**
4833 Trump Drive
Indianapolis, Indiana 46268
(317) 875-5250

Fire Investigation Workshop

Designed to provide an understanding of fire scene dynamics. Through lectures, group exercises and actual fire footage, the attendees will discuss what to look for in the initial inspection of a fire loss. Topics include fire travel patterns; ignition sources; non-fire indicators: what to expect from the local fire department. Attendees learn the basics of fire chemistry; gain valuable information about fire dynamics and non-fire indicators; review interviewing techniques with fire suppression officials; visit an actual fire scene via video; have the opportunity to work in groups to determine the cause of a "suspicious" fire; have the opportunity to discuss questions and concerns about real cases with an expert in the field.

Length/Schedule: 2 days: contact NAMIC for details
Cost: registration fees: \$169 members; \$199 non-members (includes all seminar materials, refreshments and one lunch)

Wayne Township Training Academy
700 North Highschool Road
Indianapolis, Indiana 46214
(317) 247-8501

Sixty Four Hour Master Fire/Arson Course

Prerequisite for fire service: must be firefighter, first class

Topics: master firefighter: fire and arson detection. Teaches all areas of fire investigation. Upon completion, state certification awarded: Firefighter III.

Length/Schedule: 64 hours
Cost: none for Wayne Township firefighters; others: \$75-\$125

IOWA

Des Moines Area Community College
2006 Ankeny Boulevard
Ankeny, Iowa 50021
(515) 965-7030

Fire Investigation

Designed for fire service
Prerequisites: Fire Behavior Course: Building Construction Course

Furnishes a technical background that will enable the student to examine a fire scene and determine the point of origin, cause, and sequence of events of the fire. Also covers fire cause data systems and data use in criminal prosecution, civil liability, and code enforcement. Two credits. Offered as part of two-year program leading to an A.S. degree in Fire Science or Fire Specialist Certificate.

Length/Schedule: one semester
Cost: \$35/credit hour

Iowa Chapter IAAI
c/o Roger Heglund, Secretary
P.O. Box 226
Ankeny, Iowa 50021
(515) 965-6469

Fire and Arson Seminar

Designed for law enforcement, fire service and insurance personnel

Topics include origin and cause investigations; interview techniques: evidence and trail techniques: financial investigative techniques; court testimony; photography. Tested. Applies toward certification.

Length/Schedule: three days; offered annually in September; several regional seminars also offered throughout the year, contact state chapter for details
Cost: \$95 registration

Iowa State Fire Marshal Office
Wallace State Office Building
East 9th and Grand Avenue
Des Moines, Iowa 50319
(515) 281-5821

Fire/Arson Training School

Prerequisite: must be engaged in arson investigation, fraud detection or fire service

Provides trainees with the skills to develop resources in their own communities: e.g., arson hot lines; arson task force; early warning training programs. Designed to increase identification awareness: increase arson arrest and convictions; develop association throughout state by identifying arson problems. Upon completion, student will be able to conduct arson investigations in their

communities. Topics: building construction; behavior of fire; origin: accidental and incendiary fires; fatal fires; polygraph; motives; motor vehicle fires; case profiling; photographs; report writing; surveillance; financial-insurance fraud; legal aspects; explosives; post blast; evidence collection: electrical fires; fire scene investigation: fire scene preparation; juvenile fires. Tested.

Length/Schedule: 80 hours, two weeks: held annually in October

Cost: instruction free; students provide lodging, meals

Iowa State University
Fire Service Institute
Ames, Iowa 50011-3100
(515) 294-6817

Fire/Arson Investigation

Topics include cause and origin; evidence gathering and preservation; photography; state law.

Length/Schedule: 2 days (16 hours): offered annually at the state fire school

Cost: contact Fire Science Institute, ISU

Kirkwood Community College
6301 Kirkwood Boulevard Southwest
P.O. Box 2068
CedarRapids, Iowa 52406
(319) 398-5517

Fire Behavior and Incident Investigation

Designed for fire service personnel

Topics: qualitative study of chemical and physical aspects of fuels; the combustion process and the products of combustion as these aspects apply to the causes, spread and extinguishment of a fire. Also covers principles used to determine cause of fires, and spread of fire after the fact. Three credits; may be applied toward a certificate in Fire Science, or in conjunction with work experience, workshops, self-study, Fire Academy courses and traditional credit courses, toward an A.A.S. degree.

Length/Schedule: one semester, evenings; contact Kirkwood Community college for details

Cost: tuition/credit hour: \$47 Iowa residents; \$88 non-residents

KANSAS

Dodge City Community College
2501 North 14th
Dodge City, Kansas 67801
(316) 225-1321

Fire and Arson Investigation I

Designed for fire service personnel

Offers a study of basic investigative skills, determining the point of origin and causes of fires, profiles of potential arsonists, and preserving the fire scene and gathering evidence. Three hours credit.

Length/Schedule: one semester; offered once a year

Cost: \$25 tuition plus \$2.50/credit hour

Fire and Arson Investigation II

Designed for fire service personnel

Covers investigation techniques, preserving evidence, photographing the fire scene, reports, and preparation of evidence for presentation in civil and criminal cases. Three hours credit.

Length/Schedule: one semester: offered once a year

Cost: \$25 tuition plus \$2.50/credit hour

Hutchinson Community College
1300 North Plum
Hutchinson, Kansas 67501
(316) 665-3500

Arson Investigation

The study of arson investigation. Students will acquire the necessary skills to conduct legal investigations of fires. Class meets all educational requirements for state certification as an arson investigator. Five hours credit; can be applied toward an A.A. degree in Fire Science,

Length/Schedule: one semester

Cost: tuition/credit hour: \$23 in-state; \$67.50 out-of-state

Kansas Chapter, IAAI
c/o W. L. Wells, Training Chairman
625 North Nettleton Avenue
Bonner Springs, Kansas 66012
(913) 422-3096

Annual Seminar

Designed for law enforcement, fire service and insurance personnel

Provides information about current theories and developments in the fire/arson investigation field presented by both local experts and nationally known authorities. Recent topics include: fire dynamics: documentation; origin and cause; fire photography: electrical fires; explosions; paper chase: arson trial case study: meth-amphetamine labs. By the end of the seminar, participants will have furthered their knowledge in fields related to the investigation of fires and explosions. Participants can also earn recertification hours for state certification as a fire/arson investigator. The Kansas Chapter issues a certificate attesting to successful completion of sixteen hours of tested training, No prerequisites.

Length/Schedule: three days (16 contact hours): held annually in February

Cost: \$60 registration fee (includes one ticket to Annual Banquet); meals and lodging additional

Advanced Fire Investigation Seminar

Designed for law enforcement, fire service and insurance personnel

Prerequisite: basic fire investigation training

Focuses on advanced topics in fire and arson investigation and generally includes up-to-date information of interest to experienced investigators. Topics are determined on a case-by-case basis by the Kansas Chapter IAAI, the host department, and (if co-sponsored), by members of the State Fire Marshal's Office. By attending the seminar, the trainee is able to keep abreast of current developments in the field of fire and explosion investigation. The Kansas Chapter issues a certificate attesting to successful completion of tested training.

Length/Schedule: available in 8 or 16 hour blocks, on request

Cost: nominal registration fee; costs generally borne by the host agency and the Kansas Chapter

Basic Fire Investigation Seminar

Designed for law enforcement, fire service and insurance personnel

Teaches the trainees to recognize the red flags of arson, how to preserve the scene for the investigator, and how to determine origin and cause of fires. Topics are determined by the Kansas Chapter IAAI, the host department, and (if co-sponsored by the Office of the State

Fire Marshal), members of the Investigation Staff of the Fire Marshal's Office. Topics range from investigators' needs to basic origin and cause determination, etc.

Upon completion of the seminar, the trainee who is assigned strictly to suppression will learn to recognize the needs of the investigator and will recognize when investigative assistance is required. The investigator trainee will learn the basics of fire investigation.

Kansas Chapter awards a certificate attesting to successful completion of the prescribed hours of tested training for the course. No prerequisites.

Length/Schedule: available in 8-16 hour blocks, offered on request

Cost: nominal registration fee; costs are generally borne by the host agency and the Kansas Chapter

Fire Investigation Course

Designed for law enforcement, fire service and insurance personnel

Topics: elements of fire behavior; building construction and fire investigation: fatal fires: accidental fire causes; incendiary fire causes; fire photography: report writing and field notes; non-residential rural fires; wildland fires; vehicle fires; basics of insurance for the fire investigator; motivation of the firesetter; explosives and explosions; incendiary devices; interviews and interrogations: evidence collection and preservation; forensic laboratory services and equipment; practical exercise (scene investigation, collection of evidence, presentation of conclusions). At the end of this course of study, the trainee will be able to function as a fire investigator, determining fire origin and cause, collecting evidence to support the conclusions reached, and presenting data as needed. The course is designed to meet the fire investigation portion of the State of Kansas minimum requirements for certification as a Fire Investigator. The Kansas Chapter awards a certificate, attesting to the successful completion of 80 hours of tested study in the area of Fire Investigation. No prerequisites.

Length/Schedule: 80 hours; offered every other year; next scheduled in spring 1993

Cost: varies according to location: Kansas Chapter and the host fire department or law enforcement agency share costs

Law Enforcement for the Arson Investigator Course

Designed for law enforcement, fire service and insurance personnel

Topics: Kansas Criminal Justice System; U.S. Constitution and Bill of Rights; Kansas criminal code and procedure; Kansas juvenile code and procedure;

laws of arrest and rights laws; communications processes; self defense; report writing; testifying in court; mechanics of arrest; building searches; criminal laboratories; collecting, recording, and protecting physical evidence; techniques of interviews, admissions, and statements; practical exercise and moot court. At the close of the eighty hour course, the student will be able to function as an investigator within the parameters set out by the legal system for the prosecution of arson cases. At a minimum, the student will know the basics of the development, presentation and prosecution of an arson case in the state of Kansas. While emphasis is placed on Kansas law, much of the course prepares the student to function within the framework of any state's legal and court systems. The Kansas Chapter issues a certificate attesting to successful completion of tested training. No prerequisites.

Length/Schedule: 80 hours; offered every other year:
next scheduled in spring 1994
Cost: varies, depending on location

Kansas City Community College
Engineering Technology Division
7250 State Avenue
Kansas City, Kansas 66112
(913) 334-1100

Fire and Investigation

Orientation and introduction to arson and incendiarism. Includes the laws of arson, fire causes (natural and accidental), explosive and incendiary devices, bombs, fire and police investigation, and a technical analysis of arson and fraud. Stress is placed on the collection and preservation of evidence, photography, diagrams and notes, practice in interviewing and the detention of witnesses. Also includes motor vehicle and boat fires, clothing and fabric fires, practical investigation of structural fires; reports, briefs and court procedures. Three credit hours. Part of a two year A.A. degree program in Fire Science.

Length/Schedule: one semester; offered once every two years
Cost: tuition/credit hour: \$22 in-state; \$65 out-of-state

Arson Intelligence

Designed for fire service personnel; may be taken only by members of legally established fire organizations

An intense study of the duties, functions, and processes required in making informed judgements. Covers the interconnected functions and activities of the intelligence officer, including collecting pieces of information, the evaluation process, and analyzing and report-

ing information. Topics include introduction to arson intelligence; information flow; the filing system; analysis and reporting; staffing and training the intelligence unit; management of an intelligence unit; computers and intelligence; security: applications of intelligence; legal considerations; constraints; ethics. The student will construct an intelligence report and arsonist profiles and activity predictions. Three hours credit.

Length/Schedule: one semester; contact Kansas City Community College
Cost: tuition/credit: \$22 in-state; \$65 out-of-state

Kansas State Fire Marshal Office
700 Southwest Jackson, Suite 600
Topeka, Kansas 66603-3714
(913) 296-3401

Incendiary Fire Cause and Origin

Designed for law enforcement and fire service personnel

Applies towards state of Kansas certification.

Length/Schedule: 6 hours; offered on request
Cost: none

Car Fires

Designed for law enforcement and fire service personnel

Topics: what to look for; is it incendiary or accidental?
Applies toward state of Kansas certification.

Length/Schedule: 2-4 hours offered on request
Cost: none

Collection, Recording, Protection of Evidence

Designed for law enforcement and fire service personnel

Topics: law of arrest; legal aspects, etc. Applies toward state of Kansas certification.

Length/Schedule: 4-6 hours; offered on requested
Cost: none

In conjunction with other agencies, the Kansas Fire Marshal's Office offers training in various additional aspects of fire/arson investigation (e.g., lab services, rural and wildland fires; fatal fires; incendiary devices; explosives and explosions).

**University of Kansas
Fire Service Training
Continuing Education Building
Lawrence, Kansas 66045-2624
(913) 864-4467**

Courses are delivered by Fire Service Training on a request basis, and are designed to help fire departments provide training in a wide variety of fire service disciplines. Courses are primarily off-campus and non-resident in design and nature, and are typically delivered statewide at local fire departments.

Advanced Explosion Investigation

Designed for investigators, fire officers and allied professionals

Prerequisite: participants should have basic fire investigation experience in working large scene, or be currently certified arson investigators

Educates fire investigators and allied personnel in the administrative, technical, and post-blast techniques of explosion investigation. Includes aspects of search warrants, surveillance techniques, explosive devices, commercial explosives, and a range demonstration/exercise. Host department will need to provide audio/visual equipment for this course.

Length/Schedule: 24 hours (3 days); may be requested from Fire Service Training throughout the year and delivered to locations statewide (must be requested 60 days in advance of the intended course delivery date)
Cost: \$600 plus instructor expenses (instructor expenses to include travel, lodging, and per diem, if applicable). Price is subject to change without notice. Contact Fire Service training to confirm current price.

Basic Fire Investigation

Designed for anyone who must deal with fire investigation responsibilities

Directed to fire suppression personnel, insurance adjusters, and industrial fire protection personnel who need basic fire investigation skills. Covers how to detect arson: preserving the crime scene; assisting the fire investigator; what the district attorney is looking for; what is necessary to prepare for court. Host department will need to provide audio/visual equipment for this course.

Length/Schedule: 21 hours (3 days); may be requested from Fire Service Training throughout the year and delivered to locations statewide (all requests must be made 6 months in advance of the intended course delivery date)

Cost: \$105 per participant for delivery between July 1, 1991, and June 30, 1993. Price subject to change without notice. Contact Fire Service Training to confirm current price.

Explosion Investigation Program (Basic Course)

Designed for investigators, fire officers and allied professionals

Prerequisites: participants should have completed the Basic Arson Investigation course, and should be authorized to conduct fire scene investigations

Deals with the recognition of commercial explosives and blasting agents, illegal fireworks, and improvised explosives. Also covers explosion scene investigation and accidental explosions. Students will be involved in classroom exercises. This course is not geared to line firefighters. Host department will need to provide audio/visual equipment.

Length/Schedule: 16 hours (2 days); may be requested from Fire Service Training throughout the year and delivered to locations statewide (must be requested 60 days in advance of the intended course delivery date)
Cost: \$300 plus instructor expenses (instructor expenses to include travel, lodging, and per diem, if applicable). Price is subject to change without notice. Contact Fire Service Training to confirm current price.

Fire/Arson Detection (co-sponsored by National Fire Academy)

Designed for all fire and law enforcement personnel responsible for fire cause determination

Prerequisite: participants should have a background in fire behavior

Provides fire suppression personnel with basic skills in identifying fire cause and determining whether the cause was accidental, suspicious, or incendiary. Topics include: determining the point of origin and probable cause; spotting indications of possible arson; preserving the fire scene and evidence for investigative purposes; the initial steps in arson investigation. Slides are used extensively to illustrate topics. Participants will receive a National Fire Academy certificate of completion. Host department will need to provide audio/visual equipment for this course.

Length/Schedule: may be requested from Fire Service Training by fire departments throughout the year and delivered to locations statewide (recommend that requests be submitted 45 days in advance of the intended course delivery date)

Cost: \$300 plus instructor expenses (instructor expenses to include travel, lodging, and per diem, if applicable). Price is subject to change without notice. Contact Fire Service Training to confirm current price.

Introduction to Fire Cause Determination

Designed for anyone, from the company firefighter to the beginning fire investigator

Provides the basic knowledge required for determining the cause and origin of a fire. Students will be given a general overview of accidental, incendiary, structural, and vehicular fire investigation. Host department will need to provide audio/visual equipment for this course.

Length/Schedule: 16 hours (2 days): may be requested from Fire Service Training throughout the year and delivered to locations statewide (all requests must be made 90 days in advance of the intended course delivery date)

Cost: \$60 per participant for delivery between July 1, 1991, and June 30, 1993. Price is subject to change without notice. Contact Fire Service Training to confirm current price.

Vehicle Fire Investigation

Designed for all fire and law-enforcement professionals with fire investigation responsibilities

Provides state-of-the-art information on investigating motor vehicle fires, including the following topics: motor vehicle operating systems; types of vehicle fires; vehicle arson; explosions in vehicles; examination of burned vehicles to determine cause. Host department will need to provide burned vehicles for student investigations and audio/visual equipment.

Length/Schedule: 24 hours (3 days); may be requested from Fire Service Training throughout the year and delivered to locations statewide (must be requested 90 days in advance of intended course delivery date).

Special facilities are required for this course; contact Fire Service Training for more information.

Cost: \$100 per participant for delivery between July 1, 1991, and June 30, 1993 (includes text). Price is subject to change without notice. Contact Fire Service, Training to confirm current price.

KENTUCKY

**Eastern Kentucky University
253 Stratton - 3131
Richmond, Kentucky 40475
(606) 622-1053**

Bachelor of Science in Fire and Arson Investigation

Core requirements (25 hours): Introduction to Fire Protection Technology; Fire Prevention Codes and Standards; Chemistry of Fire and Fire Behavior: Legal Aspects of Fire and Loss Prevention Services; Hazardous Materials; National Electrical Code. Four hours from: Cooperative Study, Topical Seminar, and Practicum; three hours advisor-approved Fire and Safety Engineering electives. Option requirements: Fire Control Tactics and Strategy; Emergency and Loss Prevention Services Management; Arson Investigation: Explosive Materials and Devices: Practicum. Supporting Course Requirements (36 hours); General Education Requirements (46 hours); Free Electives (5 hours); total curriculum: 128 hours.

Length/Schedule: contact Eastern Kentucky University
Cost: tuition/credit: \$65 in-state; \$176 out-of-state

Arson Investigation

Topics: detection of arson and associated crimes; interviewing techniques; preparing for court; coordination of arson investigation with other public and private agencies. Three credits.

Length/Schedule: contact Eastern Kentucky University
Cost: tuition/credit: \$65 in-state; \$176 out-of-state

Explosive Materials and Devices

A study of the classification and characteristics of explosive materials. Topics include the development of bomb safety plans, search plans operation of homemade devices, evidence and bomb scene preservation. Three credits.

Length/Schedule: contact Eastern Kentucky University
Cost: tuition/credit: \$65 in-state; \$176 out-of-state

**International Association of Arson Investigators
5616 Bardstown Road
P.O. Box 91119
Louisville, Kentucky 40291
(502) 239-7228***

Regional Training Seminars

Designed for law enforcement, fire service, and insurance personnel
Prerequisite: actively engaged in the suppression of arson and related crimes

Topics include all subjects pertaining to fire and arson investigation. Examples of recent and current seminars: Advanced Fire Scene Investigation; The Legal

Process: From the Ashes to the Courtroom; Commercial/Industrial Fire Investigation; Fraud Fire Investigation. Designed to promote the continuing education of all fire and arson investigators and to educate neophyte investigators to obtain certification status. The expected outcome for attendees is to achieve and maintain CFI level. Some courses are applicable toward CFI certification; others offer continuing education units.

Length/Schedule: varies: several seminars offered annually; contact IAAI for details
cost: varies

* **The IAAI will move to St. Louis, Missouri, early in 1993. The new address was not yet available as this catalog went to press.**

Kentucky Chapter IAAI
Michael B. Barry Sr., Secretary
3421 Boston Road
Lexington, Kentucky 40503
(606)223-1644

Fire/Arson Investigation Seminar

Topics include basic preservation of fire scene: motives of firesetter; fire scene photography; law. Additional classes offered on various topics on request.

Length/Schedule: one day: offered several times/year
Cost: \$15 (includes meals, materials)

Kentucky State Fire Marshal Office
Department of Housing, Building and Construction
127 Office Building
U.S. 127 South
Frankfort, Kentucky 40601
(502)564-3630

Kentucky State Fire School: Arson Section

Designed for fire service and insurance personnel,

Arson I: National Fire Academy course; National Fire Academy certificate awarded.
Arson II: Advanced; prerequisite Arson I. Topics vary. Certificate of completion awarded. Arson III: Legal Considerations: prerequisite Arson II. Taught by U.S. Attorney's office personnel, (includes mock trial). Certificate of completion awarded. After completion of I, II, and III, certification of 60 hours of fire investigation training is awarded.

Length/Schedule: each class 20 hours (3 days); held annually in June
Cost: none

Kentucky Tech, Region 5
Adult and Technical Education,
505 University Drive
Elizabethtown, Kentucky 42701
(502)765-2104

Arson #1 (National Fire Academy course)

Designed for law enforcement, fire service and insurance personnel
Prerequisites: limited fire service or law enforcement background would be preferred

Topics: basic cause and origin techniques; firefighter responsibility in arson detection; motives: vehicle fires; arson laws: other topics related to basic arson detection and fire cause determination. By the end of the course, student should be able to recognize signs of arson, and make basic fire cause determination. National Fire Academy certificate of attendance awarded.

Length/Schedule: 16 hours; offered on request, generally 4-5 times a year
Cost: firefighters-none; others contact Kentucky Tech

Arson #2 (Advanced Course)

Designed for law enforcement, fire service and insurance personnel
Prerequisite: completion of Arson #1

Topics: brief review of Arson #1; field work involving the investigation of a fire and evidence collection. Students generate paperwork necessary to make case under instructor supervision. Upon completion of the course, the student will be able to apply techniques of investigation at an actual fire scene, including all documentation, photography, and evidence collection procedures. Certificate of completion awarded. Course developed by Kentucky Tech and Kentucky Chapter of the IAAI.

Length/Schedule: 16 hours; offered on request, generally 4-5 times a year at various locations
Cost: firefighters-none: others contact Kentucky Tech

Arson #3 Courtroom Procedures

Designed for law enforcement, fire service and insurance personnel
Prerequisites: Arson #1 and #2

Topics: in depth review of #1 and #2; study of the arson law; hands on training with prosecution and defense attorneys: mock trial using live scene cases prepared in class. Students will develop a case for court and learn proper courtroom demeanor. By the end of

the course, the student should be more familiar with courtroom procedures. Certificate of attendance awarded.

Length/Schedule: 16 hours: offered once a year at Kentucky State Fire School
Cost: firefighters-none; others contact Kentucky Tech

LOUISIANA

Delgado Community College
615 City Park Avenue
New Orleans, Louisiana 70119
(504)483-4444

Fire Investigation Methods

Designed for fire service and insurance personnel

Topics: principles of fire investigation, including collection and presentation of arson evidence in court; arson laws; interrogation of witnesses; application of photography; preparation of reports; adjustments of insured losses. Two credit hours. No prerequisites.

Length/Schedule: one semester
Cost: tuition/credit: \$224 in-state: \$225 out-of-state (1-3 credits only)

Louisiana Chapter IAAI
c/o Aron K. Hoyt, Secretary
P.O. Box 4462
Pineville, Louisiana 71361-4462
(318) 449-5666

Annual Training Seminar

Designed for law enforcement, fire service and insurance personnel

Designed to enhance participants' knowledge and expertise in the area of arson investigation. Covers various topics related to arson investigation. No prerequisites. Tested.

Length/Schedule: 24 days: contact Louisiana IAAI for schedule information
Cost: varies

Louisiana State University
Firemen Training Program
Division of Continuing Education
6868 Nicholson Drive
Baton Rouge, Louisiana 70820
(504) 766-0600

Fire/Arson Detection (National Fire Academy course)

Designed for fire service personnel

Teaches the basic techniques of determining fire origin and cause, and recognizing primary clues or evidence of arson. May be used as an introduction for firefighters or as a review for officers. Topics include firesetter motivation, determining the point of fire origin and probable cause, legal and practical considerations in preserving the fire scene and evidence of arson, and the fire officer's role in vehicle or fatal investigations. Meets selected objectives of NFPA 1021. One point two (1.2) continuing education units awarded.

Length/Schedule: 12 hours; offered statewide; contact LSU Firemen Training Program for details
Cost: contact LSU

Fire Investigator

Designed for fire service personnel

Designed for investigators who are responsible for the investigation of fires which occur in their legal jurisdictions. The investigation of a fire, or fire incident, includes determining the origin and cause of the fire and collecting all facts pertinent to the incident under investigation. Topics discussed include origin and cause determination; accidental and incendiary fire cause; building construction; evidence preservation; fire behavior; interviews and interrogation; legal aspects; motivation of the fire setter; records and reports. Meets selected objectives of NFPA 1033. Three point six (3.6) continuing education units.

Length/Schedule: 36 hours; courses offered upon written request of fire chief
Cost: contact LSU

Louisiana State University at Eunice
P.O. Box 1129
Eunice, Louisiana 70535
(318) 457-7311

Certificate of Arson Investigation

Designed for law enforcement, fire service and insurance personnel
Prerequisite: high school graduate

The one-year certificate program in arson investigation prepares graduates for the occupation of arson investigator with fire or police departments, insurance companies, industries, or security organizations. The program offers general education and a broad scope of courses in criminal justice, fire science, and forensic

science, for those persons employed in loss prevention, security and fire protection areas. Courses include: Arson/Fire Investigation; Advanced Arson Investigation; Introduction to Forensic Science; Criminal Investigation; Criminal Law.

Length/Schedule: 33 hours leads to Certificate of Arson Investigation; 69 hours to Associate of Fire Science; 67 hours to Associate of Public and Industrial Security); program offered on semester calendar
Cost: in-state: \$114/three hour course

MAINE

Maine Fire Training and Education
Southern Maine Vocational Technical Institute
Fort Road
South Portland, Maine 04106
(207) 799-7303

Fire Investigation

Designed to develop a basic investigative ability in fire officers. Focuses on field information and data collection. Three credits.

Length/Schedule: the Fire Science program is delivered from SMVTI to other locations across the state through local Vocational Technical Institutes. Contact Adult Education Division of local VTIs for schedule details.
Cost: contact local VTI

Fire Investigation II

Designed to assist student development in determining cause and origin: conducting legal investigation; preparation of necessary forms, sketches, records and reports; identification of motives; techniques for identifying, collecting and preserving evidence. Three credits.

Length/Schedule: contact local VTI
Cost: contact local VTI

Penobscot Valley Fire Attack School
Orono Firefighters
P.O. Box 143
Orono, Maine 04773
(207) 866-4451

Fire/Arson Detection (National Fire Academy Course)

Teaches the basic techniques of determining fire origin and cause, and recognizing primary clues or evidence of arson. May be used as an introduction for firefighters

or as a review for officers. Topics include: fire setter motivation; determining point of origin and probable cause; legal and practical considerations in preserving the fire scene and evidence of arson: the fire officer's role in vehicle or fatal fire investigations. National Fire Academy Certificate awarded.

Length/Schedule: 16 hours; held annually in June (also at winter school, on request)
Cost: \$25/day

York County Fire Attack School
Sanford Fire Department
244 Main Street
Sanford, Maine 04073
(207) 324-9162

Fire and Arson Investigation

Designed for law enforcement and fire service personnel

Topics include the firefighter's and police officer's responsibility in fire investigations, as well as origin and cause determination. Both accidental and incendiary fire causes will be taught. Depending on availability at the time of this course, an actual fire scene may be investigated. Certificates awarded at completion of class.

Length/Schedule: 2 days: held in September of each year, usually the second weekend after Labor Day
cost: \$40

MARYLAND

Catonsville Community College
800 South Rolling Road at Valley Road
Baltimore County, Maryland 21228
(301) 455-4555

Investigation of Fires

Covers techniques of determining causes and path of fire; recognizing and preserving evidence of possible arson; interviews and interrogation of witnesses and suspects: preparing court cases, court testimony; reports and records. Three credits; offered as an elective in the Fire Protection Technology program; credit by examination is available,

Length/Schedule: one semester; contact Catonsville Community College for details
Cost: tuition/credit: \$14 county resident; \$37 out-of-county; \$123 out-of-state

**Community College of Baltimore
Harbor Campus
600 East Lombard Street
Baltimore, Maryland 21202
(410) 333-8329**

Fire and Arson Investigation

Examines the fundamentals of fire examination: determination of cause: identification of origin; behavioral characteristics; chemical extension of patterns; paths of fire travel: recognition and preservation of evidence; interviewing witnesses: interrogation of suspects: taking statements; preparation of cases: court demeanor and presentation of testimony. Three credits. No prerequisites.

Length/Schedule: one semester (3 hours per week): offered annually
Cost: tuition/credit: \$40 in-state; \$120 out-of-state

**DC/MD Chapter IAAI
c/o Sue Beck, Secretary
Bureau of Alcohol, Tobacco and Firearms
1401 Research Boulevard
Rockville, Maryland 20850
(301) 294-0420**

Spring Training Seminar

Designed for law enforcement, fire service and insurance personnel
Prerequisite: actively involved in fire/arson investigation

Designed to further the knowledge, skills, and abilities of investigators. Assorted topics include interviewing techniques: origin/cause; expert testimony; Miranda: death investigation. A certificate is awarded to all personnel who complete the training.

Length/Schedule: 2 days: offered once a year, usually in March
Cost: \$40 registration: lodging and meals additional

**Maryland Arson Investigators Association
P.O. Box 562
Crownsville, Maryland 21032
(301) 923-3461**

Annual Arson Investigation Seminar

Designed for law enforcement and fire investigative personnel only

Designed to fulfill mandatory recertification requirements of arson/fire investigators, and to further

enhance the investigator's knowledge, skills and resources. Topics change annually to provide current mandated information. Certificate issued to each attendee who satisfactorily completes the seminar.

Length/Schedule: 3 days; usually offered in spring
Cost: \$40 registration

**Maryland Fire and Rescue Institute Training
Academy
University of Maryland
College Park, Maryland 20742
(301) 220-7240**

Fire Investigation

Prerequisite: must have legal responsibility for the investigation of arson

Topics vary; examples: case preparation: cause and origin determination; photography; interviews and interrogation: dealing with the media; auto fires; fatal fires; clandestine labs; evidence collection and preservation. Co-sponsored by Maryland Fire and Rescue Institute, Prince George's County Fire Department and the Maryland State Fire Marshal's Office.

Length/Schedule: 5 days; offered annually
Cost: no charge in-state: approximately \$35 out-of-state

**Montgomery College
51 Mannakee Street
Rockville, Maryland 20850
(301) 279-5000**

Fire and Arson Investigation

Covers basic principles and practices of fire and arson investigation: the roles of various organizations: the impacts of fire prevention: legal aspects of the process. Three credits. No prerequisites.

Length/Schedule: one semester: contact Montgomery College for details
Cost: tuition/semester hour: \$52 in-county; \$99 in-state; \$138 out-of-state

**National Fire Academy
16825 South Seton Avenue
Emmitsburg, Maryland 21727
(301) 447-1362**

Fire/Arson Investigation

Prerequisites: priority admissions will be assigned to full-time personnel whose primary responsibility is arson investigation and/or prosecution for federal, state and local governments. These individuals include fire/arson investigators, law enforcement personnel, district attorneys' staff, and members of arson task forces

Designed to provide basic training in the principal aspects of fire investigation. Does not provide advanced training, but is a basic course that will permit the student to create a foundation upon which to build the expertise of a competent investigator. Topics: behavior of fire; determining point of origin; accidental fire cause determination: incendiary fire cause determination; motivation of the firesetter; fire scene investigation: basics of fire insurance; fire protection laboratory; vehicle fires: fatal fires; incendiary devices; legal aspects; interviews; evidence collection; introduction to computers; arson burn laboratory; presentations of laboratory investigations. By the end of the course, the student should be able to identify the origin and cause of a fire; conduct a technically and legally proper scene and follow-up investigation, and properly pursue the case through the judicial system. American Council of Education recommendation: in the upper division baccalaureate or graduate category, three semester hours in Arson Investigation, Fire Science, Criminal Justice, or Insurance.

Length/Schedule: 70 hours: offered monthly, on average

Cost: no cost for tuition, lodging, registration or transportation; meals, \$162.48

**National Fire Academy
Open Learning Fire Service Program
16825 South Seton Avenue
Emmitsburg, Maryland 21727
(301) 447-1127**

The Open Learning Fire Service Program is a way to take college courses and earn a bachelor's degree with concentration in the areas of fire administration and fire prevention technology. Offered through a national network of four-year colleges and universities. Managed by the National Fire Academy. Includes a course in:

Incendiary Analysis and Investigation

Designed for fire service

A management approach to the arson problem, presenting a variety of programs and resources available to control incendiary crime. Three credits.

No prerequisites.

Length/Schedule: one semester; offered as independent study. The seven colleges and universities in the OLFSP network serve students throughout the United States. For enrollment and registration information, contact:

Cogswell College, 10420 Bubb Road Cupertino, CA 95014 408/252-5550; region served: Arizona, California, Nevada.

University of Cincinnati, College of Applied Science, 2220 Victory Parkway, Cincinnati, OH 45206, 513/556-6583; region served: Indiana, Michigan, Minnesota, North Dakota, Ohio, South Dakota, Wisconsin, Florida, Georgia.

Memphis State University, University College, Memphis State University, Memphis, TN 38152, 901/678-2716; region served: Alabama, Arkansas, Kentucky, Louisiana, Mississippi, Tennessee, South Carolina.

Western Oregon State College, Division of Continuing Education, Monmouth, OR 97361, (503) 838-8483; region served: Alaska, Colorado, Hawaii, Idaho, Montana, Oregon, Utah, Washington, Wyoming.

University of Maryland, University College, Open Learning Program, University Boulevard at Adelphi Road, College Park, MD 20742, (800) 888-8682 or (301) 985-7722; region served: Delaware, Maryland, New Jersey, North Carolina, Washington DC, West Virginia, Virginia.

Western Illinois University, Independent Study Program, Horrabin Hall 5, Macomb, IL 61455, 309/298-2496 (toll-free in Illinois 800-322-3902); region served: Illinois, Iowa, Kansas, Missouri, Nebraska, New Mexico, Oklahoma, Texas.

Empire State College/ SUNY Center for Distance Learning, 28 Union Avenue, Saratoga Springs, NY 12866, 518/587-2100; region served: Connecticut, Maine, Massachusetts, New Hampshire, New York, Pennsylvania, Rhode Island, Vermont.

National Fire Academy Fire Service Training Package

National Audiovisual Center

**8700 Edgeworth Drive
Capitol Heights, Maryland 20743-3701
(800) 638-1300**

Fire/Arson Detection Training Package

Designed for fire service classroom

Details basic techniques of determining fire origin and cause, and recognizing primary clues or evidence of arson. May be used as an introduction for firefighters or as review for officers.

Topics: firesetter motivation: determining the point of fire origin and probable cause: legal and practical considerations in preserving the fire scene and evidence of arson: the fire officer's role in vehicle or fatal fire investigations. This course meets selected objectives of NPQS 1021, Fire Officer Professional Qualifications Standard, Level I.

Length/Schedule: 12 classroom hours
Cost: instructor package \$90; student materials package \$20

MASSACHUSETTS

Bristol Community College
777 Elsbree Street
Fall River, Massachusetts 02720.7395
(508) 678-2811

Fire Investigation

Covers the fire/arson problem: responsibility for investigation; laws; motives; insurance; chemistry; cause determination: evidence: interviews; reports; court presentation; fire/arson prevention. Profiles of fire setters will also be studied, including the juvenile fire setter. Three credits.

Length/Schedule: one semester; contact Bristol Community College for details
Cost: tuition/credit: \$81 in-state; \$240 out-of-state

Massachusetts Firefighting Academy
P.O. Box 1025, State Road
Stow, Massachusetts 01775
(508) 562-1400

Basic Fire/Arson Detection (National Fire Academy Course)

Introduces basic fire cause/origin concepts and techniques to firefighters. By the end of the course, the student will have the ability to more fully understand and recognize fire cause and origin. Certificate of attendance awarded. No prerequisites.

Length/Schedule: 12 hours; presented at various times dependent upon budgetary considerations
Cost: none

Massasoit Community College
Division of Continuing Education
One Massasoit Boulevard
Brockton, Massachusetts 02402-3996
(508) 588-9100

Fire Cause Detection

Designed to assist firefighters and fire officers in learning to properly determine the cause and origin of fires. The instructor also discusses and reviews various areas of inquiry associated with the preliminary investigation of a fire incident. Three credits; offered as part of a two year program leading to an associate degree in Fire Science Technology.

Length/Schedule: one semester; contact Massasoit Community College for details
Cost: \$225

North Shore Community College
1 Ferncroft Road
Danvers, Massachusetts 01923
(508) 762-4000

Arson Investigation

An introduction to the problems and techniques of fire investigation. Covers the chemistry of fire and combustion properties of selected fuels. Emphasis on investigative methods and various scientific aids available to the fire investigator. Topics: today's arson problem; defrauding insurance companies; role of the fire department in arson suppression; chemistry of fire; determining origin and cause: fire scene search: scientific aids: rural fires; urban fires; automobile fires; explosions; the juvenile fire problem: interviews and interrogations; case presentation. Three college credits.

Length/Schedule: 15 weeks: offered every two years
Cost: \$240 tuition

Quinsigamond Community College
670 West Boylston Street
Worcester, Massachusetts 01606
(508) 853-2300

Fire Investigation and Arson

Three credits; can be applied toward an A.S. degree in Fire Science.

Length/Schedule: one semester; contact Quinsigamond Community College for schedule information
Cost: tuition/credit: \$42 state resident; \$195 non-resident

Worcester Polytechnic Institute
Center for Firesafety Studies
100 Institute Road
Worcester, Massachusetts 01609
(508) 831-5593

Failure Analysis

Prerequisite: Fire Dynamics course or permission of the instructor

Development of fire investigation and reconstruction as a basis for evaluating and improving fire safety design. Presents accident investigation theory and failure analysis techniques such as fault trees and event sequences. Fire dynamics and computer modeling are applied to assess possible fire scenarios and the effectiveness of fire protection measures. Covers products liability aspects of failure analysis, products liability law, use of standard test methods, warnings and safe product design. Three credits.

Length/Schedule: 14 weeks; contact Worcester Polytechnic for details
Cost: \$460/credit hour

MICHIGAN

C. S. Mott Community College
1401 East Court Street
Flint, Michigan 48503
(313) 762-0383

Arson Awareness

Topics: fire cause analysis; arson motives; arson laws; arson control agencies; role of arson in fatal fires; courtroom procedures; fire characteristics. By the end of the course, the student firefighter and police officer will be qualified to recognize possible incendiary fires and take appropriate steps to preserve the scene and notify proper investigative personnel. Three credits; can be applied to associate degree in Industrial Technology, Public Fire Protection. No prerequisites.

Length/Schedule: 45 contact hours; offered periodically as one of eleven core courses needed to earn Associate Degree
Cost: approximately \$170 for tuition and text

Delta College
University Center
Michigan 48710
(517) 686-9000

Arson Awareness

A comprehensive study of national, state and local arson problems. Examines the local fire department role in reducing arson related fire losses as well as the duties of and assistance provided by governmental agencies and the private sector. Analyzes local fire

statistics to enable the development of an arson data system. Develops effective arson mitigation strategies. Three semester hours; can be applied toward A.A.S. degree in Fire Science Technology (Fire Investigation/Prevention specialization available).

Length/Schedule: one semester
Cost: tuition/credit: \$48 in-district; \$67 out-of-district; \$99 out-of-state

Fire Investigation

An in-depth basic course which defines successful methods for conducting fire investigations. Topics include basic chemistry of fire; point of origin; fire cause, both accidental and incendiary; motivation of the firesetter; fire scene investigation: evidence collection; photography; follow-up investigation and court presentation. Three semester hours; can be applied toward A.A.S. degree in Fire Science Technology (Fire Investigation/Prevention specialization available).

Length/Schedule: one semester
Cost: tuition/credit: \$48 in-district; \$67 out-of-district; \$99 out-of-state

Henry Ford Community College
5101 Evergreen at Ford Road
Dearborn, Michigan 48128.1495
(313) 271.2750

Fundamentals of Arson Investigation

Presents the fundamentals of arson investigation. Focuses on all types of fires and the techniques used to determine if they are accidental or incendiary in nature. Emphasis is placed upon investigation and preservation of evidence. Three credits.

Length/Schedule: one semester
Cost: tuition/credit: \$46 Dearborn residents: \$69 non-residents

Kellogg Community College
450 North Avenue
Battle Creek, Michigan 49017
(616) 965-3931

Fire Cause Determination

Deals with the skills and techniques necessary to investigate the origin of a fire. Includes cause determination, interviewing techniques; chain of events, arson determination, chain of evidence, and report writing. Courtroom procedures will also be discussed. Three credits; offered as part of an A.A.S. degree program in Fire Science.

Length/Schedule: one semester
Cost: tuition/credit: \$35 in-district; \$57 out-of-district;
\$89 out-of-state

Lake Superior State University
Sault Sainte Marie, Michigan 49783
(906) 635-2231

Fire and Arson Investigation

Three credits; offered as part of two year A.A.S. and
four year B.S. programs in Fire Science.

Length/Schedule: one semester
Cost: tuition/credit hour: \$110 in-state; \$216 out-of-
state

Lansing Community College
400-600 North Washington Square
P.O. Box 40010
Lansing, Michigan 48901-7210
(517) 483-1957

Arson Investigation

Designed for insurance investigators, building
operators, firefighters, fire marshal officers

Topics include duties of firefighters, investigators,
police officers and prosecutors: electrical fires;
scientific evidence; forensic laboratory services; vehicle
fires. General areas cover psychodynamics of criminal
behavior, court decisions affecting fire investigation,
insurance company operation and any new items as
current events require. Four credits.

Length/Schedule: one quarter
Cost: tuition/credit hour: \$23 resident; \$35 non-
resident; \$47 out-of-state

Fire Investigation I

Topics: fire behavior; importance of determining
origin; procedures used in identifying accidental,
incendiary or arson type fires; methods of recognizing
and identifying motivation for arson; arson laws, Three
credits.

Length/Schedule: one quarter
Cost: tuition/credit hour: \$23 resident; \$35 non-
resident; \$47 out-of-state

Fire Investigation II

Prerequisite: Fire Investigation I

Covers preservation of evidence; photographic coverage.
of fire; methods of interrogation related to fire
investigation: conduct for investigators; libel, slander
and court procedures related to evidence and
statements; the importance of cooperation between
investigative agencies; records, reports and case
histories. Three credits.

Length/Schedule: one quarter
Cost: tuition/credit hour: \$23 resident; \$35 non-
resident; \$47 out-of-state

Advanced Fire/Arson Investigation

Designed for active member of fire department, law
enforcement agency or private security
Prerequisite: Arson Investigation course

An advanced course in Fire/Arson Investigation for law
enforcement and fire department personnel. Three
credits.

Length/Schedule: one quarter
Cost: tuition/credit hour: \$23 resident; \$35 non-
resident; \$47 out-of-state

Macomb Criminal Justice Training Center
32101 Caroline
Fraser, Michigan 48026
(313) 296-9668

Fire/Arson Investigation Series

Courses offered: Fire Arson Investigation Seminar (40
hours); Fire Arson Investigation Seminar (70 hours);
Vehicle Fire Investigation Seminars (35 hours); Vehicle
Fire/Theft Investigation Seminar (8 hours); Report
Writing/Sketching Seminar (16 hours); Fire/Arson
Detection Seminar (40 hours); Juvenile Fire Setter
Seminar (16 hours); Financial Records Investigation
Seminar (16 hours). No further information submitted.

Michigan Arson Prevention Committee
200 Buhl Building
Detroit, Michigan 48826
(313) 964-1435

Prosecutor's Arson Investigation Training

Covers processing of fire scene: placement and setting
of devices used to start fires; on-scene examination of
property which has been burned.

Length/Schedule: 40 hours; offered annually, twice a
year
Cost: none

Advanced juvenile Firesetting

Designed for law enforcement and fire service personnel

Prerequisites: must have completed Michigan State Police 40 hour and 80 hour fire investigation courses.

Length/Schedule: 4 days; offered annually in fall
Cost: \$100 (includes lodging and meals)

Juvenile Firesetter Seminar

Open to all interested parties

Length/Schedule: 3 days; offered annually in spring
Cost: \$85

Michigan Chapter IAAI
P.O. Box 187
Dimondale, Michigan 48821
(313) 469-6840

Annual Seminar and Regional Seminars

No further information submitted.

Michigan Firefighter's Training Council
7150 Harris Drive
Lansing, Michigan 48913
(517) 322-1922

Fire/Arson Detection (National Fire Academy Course)

Designed for fire service and law enforcement personnel

Details the basic techniques of determining fire origin and cause, and recognizing primary clues or evidence of arson. May be used as an introduction for firefighters or as a review for officers. Topics include: firesetter motivation; determining the point of fire origin and probable cause; legal and practical considerations in preserving the fire scene and evidence of arson; the fire officer's role in vehicle or fatal fire investigations. NFA certificate awarded. No prerequisites.

Length/Schedule: two days; offered on request of counties at training centers throughout state
Cost: varies, depending on training center

Fire and Arson Investigation (adapted from NFA 80 hour course in 1977-78)

Designed to provide basic training in principal aspects of fire investigation. Topics: behavior of fire; point of origin; accidental causes; incendiary causes; motivation

of firesetter; fire scene investigation; follow-up investigation: basics of insurance; fire protection systems; vehicle fires; fatal fires; incendiary devices; legal aspects of fire investigation: interviews; evidence collection; arson information management system. Upon completion, student should be able to identify the origin and cause of fire, conduct a technically and legally proper scene and follow-up investigation, and pursue the case through the judicial system. Certificate of completion awarded by state. No prerequisites.

Length/Schedule: 64 hours; offered on request of counties throughout the state
Cost: covered by requesting organizations
Courses also offered through 15 Regional Training Centers located at the following sites:

Alpena Community College
666 Johnston
Alpena, Michigan 49707
(517) 356-9021

Delta Community College
Office of Corporate Services
University Center, Michigan 48710
(517) 686-9296

Northwest Regional Fire Training Center
c/o Grand Traverse County Fire Department
897 Parsons
Traverse City, Michigan 49684
(616) 922-4840
(offers burn facilities for fire investigation scenarios)

Kirtland Community College
10775 North St. Helen Road
Roscommon, Michigan 48653
(517) 275-5121

Macomb Community College
32101 Caroline Boulevard
Fraser, Michigan 48026
(313) 296-9563

Bay de Noc Regional Training Center
c/o Escanaba Department of Public Safety
Escanaba, Michigan 49829-0250
(906) 774-0622

Gogebic Community College
Ironwood, Michigan 49938
(906) 932-423 1

Kellogg Community College
450 North Avenue
Battle Creek, Michigan 49017
(616) 965-393 1

Lake Superior State University
Sault Sainte Marie, Michigan 49783
(906) 635-2726

Mid Michigan Community College
1375 South Clare Avenue
Harrison, Michigan 48625
(517) 386-7792

Muskegon Community college
221 South Quarterline
Muskegon, Michigan 49442
(616) 777-0217

Schoolcraft Community College
C. E. S. Office
18600 Haggerty Road
Livonia, Michigan 48154
(313) 462-4448

Lansing Community College
Fire Science Programs
P.O. Box 40010
Lansing, Michigan 48901-7211
(517) 483-1346

Oakland Community College
22322 Rutland Drive
Southfield, Michigan 48075
(313) 552-2636

Washtenaw Community College
4800 East Huron River Drive
P.O. Box D-1
Ann Arbor, Michigan 48106
(313) 677-5024

Contact individual training centers for details

Michigan State Police, Fire Marshal Division
7150 Harris Drive
Lansing, Michigan 48913
(517) 322-1940

Advanced Fire Investigation School

Designed for law enforcement and fire service personnel
Prerequisite: certified police officer or fire fighter

Designed to give the fire investigator more specialized training beyond the Basic Fire Investigation School. Topics: liquid petroleum gas and fire investigation; mail fraud; search warrants and service procedures; interview and interrogation; profiling of the arsonist; insurance investigation and examination under oath; juvenile firesetters; accounting for the investigator;

natural gas investigations; circumstantial case, preparation and presentation. Upon completion of the school a fire investigator should be better equipped to follow through a fire investigation. Credit offered.

Length/Schedule: 32 hours; offered twice a year
Cost: all costs are paid by the Michigan State Police, Fire Marshal Division

Basic Fire Investigation School

Designed to train individuals who are responsible for fire/arson investigation on a full-time basis
Prerequisite: certified policeman or firefighter

Topics: behavior of fire: building construction: determining point of origin; accidental fire causes; incendiary fire causes; basics of insurance: motives: photography; sketching; scene investigation; rural fires; wildland fires: vehicle fires; fatal fires; legal aspects: interview and interrogation; evidence collection and preservation; report writing: live house and vehicle burn; mock trial. By the end of the course, the student should be able to conduct an origin and cause investigation and testify as an expert fire witness. The student should also be able to identify possible motives and suspect(s). Certificate awarded.

Length/Schedule: 80 hours: offered twice a year
Cost: all costs are paid by the Michigan State Police, Fire Marshal Division

Vehicle Fire/Theft Investigation School

Prerequisite: certified police officer or firefighter

Designed to provide specialized training to full-time vehicle fire investigators. Topics: identifying vehicles; motives; mechanical review; ignition and steering columns; arson techniques; automotive systems and materials; automotive investigation process; photography; live burn; evidence collection and preservation; mock trial. By the end of the course the student should be able to conduct an origin and cause determination on a vehicle fire and testify as an expert fire witness.

Length/Schedule: 32 hours; offered once a year
Cost: all costs are paid by the Michigan State Police, Fire Marshal Division

Mid Michigan Community College
1375 South Clare Avenue
Harrison, Michigan 48625
(517) 386-7792

Arson Investigation

Designed for law enforcement and fire service personnel

Presents the fundamentals of arson investigation. Concerned with all types of fires and the techniques of determining if they are accidental or incendiary in nature. Emphasis is placed upon investigation and preservation of evidence. Three credits. No prerequisites.

Length/Schedule: one semester; contact Mid-Michigan Community College for details
Cost: tuition/credit hour: \$39 in-district; \$59 out-of-district

**Muskegon Community College
Regional Fire Training Center
221 South Quartet-line Road
Muskegon, Michigan 49442
(616) 777-0217**

Fire/Arson Detection (National Fire Academy course)

Topics: motivation of the firesetter; determining the point of origin; fire causes: accidental and incendiary; fatal fires; vehicle fires; legal aspects.

Length/Schedule: contact Muskegon Community College
Cost: contact Muskegon Community College

Fire and Arson Investigation (adapted from NFA 80 hour course in 1977-78)

Designed to provide basic training in principal aspects of fire investigation. Topics: behavior of fire; point of origin: accidental causes; incendiary causes: motivation of firesetter; fire scene investigation; follow-up investigation: basics of insurance: fire protection systems; vehicle fires: fatal fires: incendiary devices; legal aspects of fire investigation; interviews; evidence collection; arson information management system. Upon completion, student should be able to identify the origin and cause of fire, conduct a technically and legally proper scene and follow-up investigation, and pursue the case through the judicial system, Certificate of completion awarded by state. No prerequisites.

Length/Schedule: 64 hours
Cost: contact Muskegon Community College

**National Fire Information Council
P.O. Box 23221
Lansing, Michigan 48909
(517) 655-5355**

Arson Reporting Module

Designed for fire service personnel
Prerequisite: must be using basic NFIRS

The arson reporting module is an addition to the National Fire Incident Reporting System (NFIRS). It is currently being developed and will track arson fires when completed. Departments will then be able to monitor arson fires better than the current system allows.

Length/Schedule: determined by each department
Cost: contact National Fire Information Council

MINNESOTA

**Anti-Vehicle Crime Association of MN (AVCAM)
P.O. Box 39262
Minneapolis, Minnesota 55439
(612) 631-4196**

AVCAM Training Seminar: Vehicle Arson

Designed for law enforcement, fire service and insurance personnel and anyone who is interested in or involved in solving vehicle crime

Topics include: origin and cause: accidental, intentional or otherwise; current pertinent laws in Minnesota; investigation techniques; case management; stress management: case studies.
P.O.S.T. credits available.

Length/Schedule: one and a half to two hours; offered as part of all day seminar, twice a year, in February and September
Cost: \$20 (includes lunch)

**Bureau of Criminal Apprehension
Training and Development
1246 University Avenue
St. Paul, Minnesota 55104
(612) 642-0660**

Arson Investigation

Designed for licensed law enforcement officers and firefighters who investigate arson crimes; teams consisting of a firefighter and a peace officer from the same community will receive enrollment priority

In this basic course, firefighters and law enforcement officers develop skills in recognizing significant evidence and in preserving the evidence found at a suspected arson scene. Participants also develop an

understanding and appreciation for a cooperative approach between firefighters and peace officers in fire scene investigation. Topics: motives of firesetter; fire behavior; point of origin: fire causes - accidental and intentional; vehicle fires: legal issues; fatal fires. Successful participants will be able to identify burn patterns; secure a fire scene for evidence preservation; understand fire behavior and its effects in fatal fires: apply current laws and statutes to arson cases. National Fire Academy certificate awarded. Twenty eight P.O.S.T. continuing education credits awarded. No prerequisites. Presented in cooperation with Minnesota State Fire Marshal Division.

Length/Schedule: four days; first in a series of three classes offered annually
Cost: \$120 tuition

Intermediate Arson

Designed for licensed law enforcement officers and firefighters who investigate arson crimes; teams consisting of a firefighter and a peace officer from the same community will receive enrollment priority
Prerequisite: Basic Arson Investigation or equivalent

Concentrates on uncovering the paper trail of the arson crime, collecting evidence for laboratory examinations, and photographing the crime scene. Participants examine company records of actual cases to find cause and cover-up attempts, study photography situations that pose special problems, and learn how to handle and collect evidence carefully and methodically. Topics include report writing, photography, sketching, evidence collection, financial fraud and related motives. Twenty one P.O.S.T. continuing education credits awarded. Presented in cooperation with Minnesota State Fire Marshal Division.

Length/Schedule: 3 days; second in a series of three classes offered annually
Cost: \$90 tuition

On Scene Arson

Designed for licensed law enforcement officers and firefighters who investigate arson crimes Teams consisting of a peace officer and firefighter from the same community will be given enrollment priority
Prerequisite: Basic and Intermediate Arson Investigation or equivalents

This course, the final course of the arson investigation series, concentrates on the practical use of the knowledge gained in the first two arson courses. In small groups, participants will investigate a realistic arson

scenario, including collecting evidence, developing a report, gaining information from suspects and witnesses, constructing a case, and presenting the case to a county attorney for review and critique. Topics include interview and interrogation: scene examination; case preparations; interviewing suspects and witnesses; presentation of case to a prosecuting attorney. By the end of the course, students will be able to plan strategies for fire scene investigations as part of a team; collect and process evidence properly: effectively interview witnesses and suspects; document fire scenes with sketches, photographs and field notes; prepare detailed reports; develop and present arson cases. Twenty-five P.O.S.T. continuing education credits awarded. Upon completion of the series a special arson series certificate is issued. Presented in cooperation with Minnesota State Fire Marshal Division.

Length/Schedule: three and one half days; final of three in an annual series
Cost: \$120 tuition

Hennepin Technical College
7145 Harriet Avenue South
Richfield, Minnesota 55423
(612) 861-7481

Fire/Arson Investigation I

Designed for law enforcement, fire service and insurance personnel

Designed to teach the student the basic skills needed for fire investigations. This course is the first quarter of the three quarter National Fire Academy Program. Topics: behavior of fire: building construction; determining points of origin: accidental and incendiary fire causes: motivation of fire setters. Three credits.

Length/Schedule: one quarter (36 hours); offered once every two years as part of an A.A.S. degree program; available as an in-house or in-department course upon request
Cost: \$34.35/credit

Fire/Arson Investigation II

Designed for law enforcement, fire service and insurance personnel
Prerequisite: Fire/Arson Investigation I

Second quarter of the three quarter National Fire Academy Program. Topics: basic insurance concerns; photography; sketching; investigative techniques: wildland fires: vehicle fires: fatal fires. Three credits.

Length/Schedule: one quarter (36 hours): offered once every two years as part of an A.A.S. degree program (next scheduled in spring quarter 1993); available as an in-house or in-department course upon request
Cost: \$34.45/credit

Fire/Arson Investigation III

Designed for law enforcement, fire service and insurance personnel

Prerequisite: Fire/Arson Investigation II

Third quarter of the three quarter National Fire Academy Program. Topics: explosives; incendiary devices; legal aspects; interviews; field notes and report writing. Three credits.

Length/Schedule: one quarter (36 hours): offered once every two years as part of an A.A.S. degree program (next scheduled in fall quarter 1993); available as an in-house or in-department course upon request.
Cost: \$34.45/credit

Minnesota Chapter of the IAAI
c/o Mary Nachbar, President
Minnesota State Fire Marshal Division
285 Bigelow Building
450 North Syndicate Street
St. Paul, Minnesota 55104
(612) 643-3080

Annual Fire and Arson Investigation Conference

Designed for law enforcement, fire service and insurance personnel

The conference is geared toward issues of interest to investigators from all fields: fire service, law enforcement and insurance. Typical topics include interviewing techniques, arson immunity statutes, arson trends, and basic cause and determination. Continuing education units offered through local community college; P.O.S.T. credit awarded to members of law enforcement agencies.

Length/Schedule: two and one half days; offered annually in March
Cost: \$100-\$125 registration

Minnesota State Fire Marshal Division
285 Bigelow Building
450 North Syndicate Street
St. Paul, Minnesota 55104
(612) 643-3080

Basic Fire Cause Determination (Annual State Fire School)

Designed for law enforcement, fire service and insurance personnel

An arson detection course that teaches firefighters to develop and apply uniform methods and techniques for preliminary fire investigation. Designed to train and educate firefighters to recognize and understand facts and circumstances surrounding all fires. Continuing education units offered through local technical college.

Length/Schedule: 16 hours: offered annually in the spring
cost: \$100

Arson Detection (Annual State Fire School)

Designed for firefighters, law enforcement and insurance personnel with fire investigation responsibilities

Exposes students to methods of reading fire patterns, determining the point of origin, and eliminating accidental fire causes. Covers methods of collecting evidence, fire scene photography and sketching, report writing, and the legal responsibilities and aspects of criminal arson investigation. Also discusses the psychology and motivation of the fire setter. Based on National Fire Academy course. Continuing education units offered through local technical college

Length/Schedule: 16 hours; offered annually in the spring
cost: \$100

Fatal Fires

Designed for: law, enforcement, fire service, insurance personnel, coroners and medical examiners
Prerequisite: investigation experience

Student learns physical and circumstantial evidence that would link a suspect to an arson-homicide scene, procedural steps of a death investigation, what to ask a survivor, responsibilities at a fatal fire scene and the consistencies needed at each scene. Topics: responsibilities at fire scenes; examination involved, including body removal and fire behavior: observations by on-scene personnel; causes of death and victim identification; criminal investigation procedures; arson-homicide evidence and recognition: dealing with survivors. By the end of the course, the student, will be able to explain why security and certain responsibilities are necessary, and why fire behavior and scene examinations must be relevant. By activating standard operating procedure

for a criminal investigation, student will understand and identify evidential materials and know how to deal with witnesses and survivors. P.O.S.T. credits applied for, also varies per requested session.

Length/Schedule: varies (4 hours to 3 days); offered as requested (portions included in Basic Arson Investigation course conducted through Minnesota Bureau of Criminal Apprehension); contact Kevin Schuman for further information

Cost: dependent upon group and session requested

Testifying In Court

Designed for law enforcement, fire service and insurance investigative personnel

Gives the student background for testifying in court. Discusses ways to support credibility and to become an expert witness. Topics: observations at the scene; evidence types and explaining how collected; report documentation: the adversary system and the law of arson; charging and complaint process; witnesses and their differences. Includes a mock trial. By the end of the course, the student will have gained confidence in his/her credibility and professionalism, support in preparation for court at any level, and an understanding of the process and importance of being a witness. Fifteen-twenty one P.O.S.T. continuing education credits applied for.

Length/Schedule: 2-3 days; offered upon request and usually offered at Minnesota State Fire School; contact Kevin Schuman for further information

Cost: dependent upon request

MISSISSIPPI

Commissioner of Insurance/Mississippi State Fire Marshal
Woolfolk Building
500 North West Street
Jackson, Mississippi 39225
(601) 359-1061

Fire/Arson Investigation

Offers training in conjunction with the Mississippi State Fire Academy. State Fire Marshal office investigative staff also offers fire and arson investigation training on request to fire departments throughout the state.

Length/Schedule: contact Mississippi State Fire Marshal

Cost: contact Mississippi State Fire Marshal

Mississippi Fire Academy
Route ID, Box 295
Jackson, Mississippi 39208
(601) 932-2444

Fire Investigator

Designed for law enforcement, fire service and insurance personnel

Topics: chemistry of fire; fire dynamics; analysis of fire patterns; determining the cause/origin of fires; fire fighting operation; fire investigation: fire scene investigation; safety; recognizing hazardous materials; fire scene documentation/diagramming; fire scene/evidence photography; evidence collection/preservation; investigating electrical fire; explosion investigation; legal considerations of fire investigation; interviewing/interrogating and preparing the arson case for courtroom presentation. Upon completion of the course, trainee will be expected to meet the objectives of NFPA 1033. Certificate awarded. No prerequisite.

Length/Schedule: 80 hours; offered annually
cost: \$300

Mississippi Fire Investigators Association
(Mississippi Chapter IAAI)
Tommy Saffle, Secretary
809 Spring Lake Drive
Terry, Mississippi 39170
(601) 373-4364

Fire/Arson Investigation Seminars

Designed for law enforcement, fire service and insurance personnel who are fire investigators or closely associated with fire investigative personnel

The MFIA has a membership from law enforcement, the fire service, insurance and private areas of fire investigations. Provides training and education that meets the needs of all members and other interested parties, in support of the fire investigation field. Certificate awarded with or without testing.

Length/Schedule: two and one half days (20 hours); offered in April and October
Cost: normally \$80-\$100

MISSOURI

East Central College
Highway 50 and Prairie Dell Road
P.O. Box 529
Union, Missouri 63084
(314) 583-5193

Fire Investigation

Designed to introduce students to methods of determining point of origin, path of fire travel, and fire causes. Topics: motives and methods of fire setting; recognizing and preserving evidence: arson laws; types of arson fires; court testimony; reports and records. Three credit hours, Offered as part of a two year program leading to an A.A.S. degree in Fire Technology.

Length/Schedule: one semester; contact East Central College for details

Cost: fee/credit hour: \$29-\$39 in-state; \$51 out-of-state

Jefferson College
1000 Viking Drive
Hillsboro, Missouri 63050
(314) 789-3951

Fire and Arson Investigation and Detection

Designed for employed or volunteer firefighters only
Prerequisite: authorization from fire district administrator

Topics include fundamental principles, theory, techniques and procedures of arson investigation and detection. Also covers preparation of reports, evidence, and interviews to prepare for actual court cases. Three semester hours credit.

Length/Schedule: one semester
Cost: fees and tuition/credit hour: \$32 district resident: \$44 out-of-district: \$56 out-of-state

Missouri Chapter of the IAAI
c/o David Snarr, Secretary
125 Madison
Macon, Missouri 63552
(816) 385-6435

Annual Seminar: Statewide Arson Training Course

Co-sponsored with State Fire Marshal's Office. No further information submitted

Missouri Division of Fire Safety
P.O. Box 844
Jefferson City, Missouri 65102
(800) 877-5688

Fire Investigation Course and Certification Program

Prerequisites: 3 years experience in fire prevention, fire investigation or criminal investigation; 24 hours, training applicable to fire investigation

Provides a training course for investigative personnel in theoretical and investigative procedures and techniques, and prepares them for certification. Based on the areas of knowledge and the requirements of NFPA 1033: Professional Qualifications for Fire Investigator. Topics: fire behavior; building construction; determining point of origin: accidental and incendiary fire causes and devices; explosives; fatal fires; insurance: legal aspects; motivation of the fire setter; evidence; interviews; report writing; photography; sketching; data sources. Upon completion, the fire/arson investigator will meet the minimum requirements set forth in NFPA 1033. After successfully completing the course with a score of 75% or better, applicant is eligible to take the certification exam. If applicant passes the exam, he/she will then be certified as a Fire Investigator with the state of Missouri.

Length/Schedule: 1 week (40 hours); offered 3 times a year at various locations throughout the state. The exam is offered twice a year in Jefferson City, MO.
Cost: no course fee for qualified applicants from fire, police, and state agencies in Missouri. Individuals from private industry and out of state will be charged \$50.

Penn Valley Community College
3201 Southwest Trafficway
Kansas City, Missouri 64111-2764
(816) 932-7600

Fire Investigation

Introduction to arson and incendiarism. Topics: laws of arson; fire causes, natural and accidental; techniques for preservation of evidence; photography, diagrams and notes; interviewing and detention of witnesses; motor vehicle fires: records, reports, briefs and court procedures. Three credits: offered as part of a program leading to a certificate in Fire Prevention or an A.A.S. degree in Fire Science Technology,

Length/Schedule: one semester
Cost: tuition/credit: \$39 in-district; \$64 out-of-district; \$92 out-of-state

Professional Fire and Fraud Investigators Association
4120 West 2nd
Battlefield, Missouri 65619
(417) 882-1467

Annual Conference

Designed for law enforcement, fire service and insurance personnel

Normally offered in two sessions: a weekend basic fire investigation session and a session on more advanced techniques (two and one half weekdays). Training hours can apply to recertification requirements for Missouri Division of Fire Safety.

Length/Schedule: 5 days; held annually in September or October

Cost: varies

Fire Ground Investigation

Designed for fire service personnel

Provides basic information for suppression personnel.

Length/Schedule: 3 hours; offered on request of fire departments

Cost: varies

Fire Cause Determination

Designed for fire service personnel

Length/Schedule: 12 hours; offered on request of fire departments (usually scheduled through Fire and Rescue Training Institute at University of Missouri)

Cost: varies

St. Louis Community College at Forest Park
5600 Oakland Avenue
St. Louis, Missouri 63110-1393
(314) 644-9310

Fire Investigation

Designed for fire service

Provides students with information necessary to become versed in methods of determining cause and source of fires, and support with follow up reports and records. Topics: fire causes; arson laws: court testimony; recognizing and preserving evidence: methods for determining points of origin; path of fire travel and fire cause. By the end of the course, student will be able to judge causes of fires to a degree that could entail legal testimony. Three credits. No prerequisites.

Length/Schedule: one semester; contact St. Louis Community College for details

Cost: approximately \$100

MONTANA

Montana Department of Justice Law Enforcement Academy Division

620 South 16th Avenue
Bozeman, Montana 59715-4198
(406) 994-3918

Arson Investigation

Designed for fire and law enforcement investigators

Co-sponsored by the Montana Law Enforcement Academy and the Montana Fire Marshal Bureau. Details the basics of arson investigation, emphasizing obtaining and preserving arson evidence and determining cause and origin for structure, vehicle and wildland fires.

Length/Schedule: 40 hours; offered annually; contact Montana Law Enforcement Academy for details

Cost: approximately \$85 for in-state personnel; approximately \$250 for out-of-state

Crime Scene Processing and Evidence Management

Designed for seasoned officers who need to be able to process a crime scene, assist in the analysis of physical evidence, and supervise an agency's evidence/property room

This program includes the following courses: First Officer Awareness; Crime Scene Management; Basic Photography; Rules of Evidence/Chain of Custody; Crime Scene: Kits: Documentation and Medico-Legal Aspects of Death: Search and Seizure: Arson Evidence; other topics. Two days spent at the Division of Forensic Science Lab in Missoula.

Length/Schedule: 80 hours; offered 1-2 times a year; contact Montana Law Enforcement Academy for details

Cost: approximately \$190 for in-state personnel; approximately \$600 for out-of-state

Montana Department of State Lands
2705 Spurgin Road
Missoula, Montana 59801
(406) 542-4300

Wildland Fire

Designed for department of state lands personnel and other state personnel with investigation responsibilities

Serves as basic introduction to investigative work.

Topics: discussion of laws; criminal information reporting systems: common burn indicators; photography; search and seizure laws; evidence collection, protection and processing; interviewing techniques; construction of case report; simulated investigation.

Length/Schedule: 4 days; offered as needed
Cost: none

**Montana State University
Fire Training School
2100 16th Avenue South
Great Falls, Montana 59405
(406) 761-7885**

Fire Investigation Seminar

Provides skills maintenance for firefighters, law enforcement officers and fire investigators. Topics vary from year to year. In the past, they have included arson evidence; vehicle investigation: wildfire investigation: basics of fire investigation. Certificate awarded. No prerequisites.

Length/Schedule: 12-16 hours; held annually
cost: \$40-\$75

NEBRASKA

**Nebraska Chapter IAAI
c/o Charles Hoffman, Secretary
2115 Park Drive
Grand Island, Nebraska 68801
(308) 384-5296**

Fire and Arson Investigation Mini Series

Offered on request by Nebraska IAAI Education Committee. Training is tailored to the specific area requested. Past mini-seminars have covered such topics as: chemistry of fire; basic investigation/origin and cause; wildland fires: law enforcement and insurance roles in investigation; juvenile firesetters; bombs and explosives: drug labs; cults. Tested; certificates awarded to participants who achieve a grade of at least 70%. Credit varies.

Length/Schedule: 2 days; offered on request
Cost: \$15-\$20 registration

**Nebraska State Fire Marshal Office
246 South 14th Street
Lincoln, Nebraska 68508
(402) 471-2027**

Nebraska State Fire School: Basic Fire Investigation

Designed for firefighters and law enforcement officers

Basic fire investigation. Investigation techniques are taught to enable the student to determine the origin and cause of a fire. Topics: cause and origin: scene security; evidence preservation; documentation; court testimony. Each student receives achievement cards at the end of class.

Length/Schedule: 12 hours: next offered in May 1993
Cost: \$30 registration; meals and lodging, additional

**Southeast Community College
8800 "O" Street
Lincoln, Nebraska 68520
(402) 471-3333**

Introduction to Fire Investigation

Designed for law enforcement, fire service, and insurance personnel

Basic introduction to fire investigation and arson recognition. Covers the importance of fire cause investigation to the fire service, the firefighter's role in detecting and preserving evidence, and methods used to determine fire origin. Typical topics: chemistry of fire/ cause and origin; basic evidence collection; advanced evidence examination: mobile home fires: hands on fire scene investigation: fraud: vehicle fires; legal and insurance: juvenile firesetters. By the end of the course, the student will have a basic understanding of fire/arson investigation/detection. Four credits. No prerequisites.

Length/Schedule: one quarter (40 class hours, 4 lab hours): offered once every two years as part of a Fire Protection Technology degree program; next offered in September 1993
Cost: \$92 tuition

Annual Nebraska Fire and Arson Investigation Conference

Designed for law enforcement, fire service, insurance personnel and prosecuting attorneys; persons who are directly connected with fire and arson investigation

Designed to improve investigation skills. Includes various topics related to fire and arson investigation: origin and cause; chemistry of fire: fraud; vehicle fires; basic evidence collection; advanced evidence examination; mobile home fires; fire scene orientation; legal, and insurance issues; dealing with juvenile fire setters; hands-on training in actual fireground. Certificate awarded to participants who pass test with a grade of

70%. Continuing education units offered. Co-sponsored by Southeast Community College and Nebraska Chapter IAAI.

Length/schedule: 4 days; held annually; next scheduled in September 1993

Cost: registration \$100; lodging approximately \$33/night; meals additional

University of Nebraska at Omaha
Fire Protection Technology
60th and Dodge Street
Engineering Room #133
Omaha, Nebraska 68182-0181
(402) 554-2393

Fire/Arson Investigation

Basic instruction in determining the origin and cause of fires, recognizing the signs of arson, and understanding the motives of firesetters. Topics: procedures in arson investigations; legal documentation; submission of evidence; photographic requirements; use of the polygraph as an investigative aid. Offered as part of an associates degree program. Three credit hours. No prerequisites.

Length/Schedule: one semester (16 weeks): offered fall of 1992, every 3 years thereafter

Cost: \$60/credit hour

NEVADA

Community College of Southern Nevada
3200 East Cheyenne Avenue
North Las Vegas, Nevada 89030
(702) 564-7484

Fire Investigation

Topics: introduction to arson and incendiarism, arson laws, and types of incendiary fires: methods of determining fire cause; recognizing and preserving evidence; interviewing and detaining witnesses; procedures in handling juveniles: court procedures and giving court testimony. Three credits; offered as part of a two year program leading to an Associate of Applied Science degree in Fire Science.

Length/Schedule: one semester; offered spring semester; odd years only

Cost: tuition/credit hour: \$28 in-state; \$28 out-of-state (1-6 credits)

Nevada Chapter IAAI
c/o Sonja Drase
1202 South Martin Luther King Boulevard
Las Vegas, Nevada 89102
(702) 388-8787

Arson Investigation Seminars

Designed for law enforcement, fire service, and insurance personnel

Teaches the students new and updated material on the subject of fire investigation, reinforces prior training. Topics vary with each seminar. Certificate of attendance, P.O.S.T. credits, college credits awarded. No prerequisite.

Length/Schedule: 2 days; southern Nevada seminar usually offered in fall: northern Nevada seminar in spring

Cost: varies; contact Nevada IAAI

Nevada State Fire Marshal Division
Capitol Complex
Stewart Facility #107
Carson City, Nevada 89710
(702) 687-4290

Fire/Arson Investigation

Designed for law enforcement, fire service and insurance personnel

Topics include fire behavior; determining point of origin; accidental fire causes, incendiary fires and fire causes; motivations: basics of insurance; building construction: photography, sketching, field notes and report writing: fire scene investigation; non residential rural fires; wildland fires; vehicle fires; fatal fires; legal aspects; interviews and interrogations; evidence collection/preservation; laboratory services. By the end of the course, the student should be able to conduct legal investigations: determine origin and cause of a given fire; identify, collect and preserve evidence; prepare necessary forms, sketches and reports; identify common motives. Nevada State Fire Marshal certificate, P.O.S.T. credits awarded. Tested. Passing score of 70% required.

Length/Schedule: 40 hours: offered twice a year or as needed
cost: \$75

Fire/Arson Detection

Designed for law enforcement, fire service and insurance personnel

Topics: motivation of the firesetter; determining the point of origin; fire causes: accidental and incendiary; fatal fires; vehicle fires; legal aspects. By the end of the course the student will demonstrate expertise in determining point of origin, cause and motive. The student will also be able to identify fire scene operational procedures as established by recent court rulings. Nevada State Fire Marshal certificate, P.O.S.T. credits awarded. Tested. Passing score of 70% required.

Length/Schedule: 16 hours; offered on request
Cost: none

Truckee Meadows Community College
7000 Dandini Boulevard
Reno, Nevada 89512-3999
(702) 673-7000

Arson Investigation

Topics: introduction to arson and incendiarism, arson laws, and types of incendiary fires; methods of determining fire cause: fire loss estimation: recognizing and preserving evidence; interviewing and detaining witnesses: procedures in handling juveniles: court procedures and giving court testimony. Three credits; offered as part of a program leading to an A.A.S. degree in Fire Science Technology.

Length/Schedule: one semester
Cost: fee/credit: \$28; (out-of-state tuition applies when more than seven credits are taken)

NEW HAMPSHIRE

Meadowood Fire Training Center
P.O. Box 969
Keene, New Hampshire 03431

Fire/Arson Investigation **Fire Prevention/Inspection/causes (NFPA 1001)**

Designed for firefighters from the state of New Hampshire and throughout New England.

These courses are offered on an alternating basis as part of the spring and fall fire schools at Meadowood.

Length/Schedule: 16 hours; offered twice a year (May and September)
Cost: \$60 registration

New Hampshire Chapter IAAI
c/o George Sykes, Secretary
Lebanon Fire Department
21 South Park Street
Lebanon, New Hampshire 03766
(603) 448-8810

Biannual Training Seminars

Designed for law enforcement, fire service, insurance personnel

Designed to provide a forum for exchange of information and technology, to promote better professional standards, and to provide quality education. Topics vary; may include: conducting interrogations and interviews; investigation of cause and origin of fires; interpreting body language during interviews; car fires. Certificate of attendance awarded (or certificate of completion if tested). No prerequisites.

Length/Schedule: 1 day: contact New Hampshire Chapter of the IAAI for details. Monthly seminars also offered, focusing on a variety of arson/fire investigation topics.

Cost: \$35-\$45 (includes meal)

New Hampshire Technical College, Laconia
Route 106, Prescott Hill
Laconia, New Hampshire 03246
(603) 524-3207

Fire Investigation

Deals with issues and training necessary to the preparation of any fire protection professional, Topics: origin and cause of fire; the chemistry of fire: the arson problem; arson laws; the qualifications of a fire investigator; the tools of investigation: and the firefighter's role in fire investigations. Three credits. No prerequisites.

Length/Schedule: one semester
Cost: tuition/credit: \$87 in-state: \$130 Northeast regional: \$205 out-of-state

St. Anselm College
c/o Professor Thomas Hammond
87 St. Anselm Drive
Manchester, New Hampshire 03102-7000
(603) 641-7026

Arson Seminar

Designed for law enforcement, fire service and insurance personnel

A changing curriculum attempts to meet the needs of both the new and experienced investigator. Topics: identification and collection of accelerant evidence; arson profiling; laboratory perspective on fire; interviewing, note taking and report writing; cause and origin; civil liability for negligent fire investigation; field exercise; mock trial. Three continuing education credits: ten hours toward CFI qualifications, No prerequisites.

Length/Schedule: one week; offered annually; next scheduled in late June 1993
cost: \$395

NEW JERSEY

Bergen County Police and Fire Academy
281 Campgaw Road
Mahwah, New Jersey 07430
(201) 818-7800

Fire and Arson Detection

Designed for fire service personnel

Gives fire and police personnel much of the information required to assist a trained investigator in making on-scene fire cause determinations. Content presented by Fire Academy Staff instructors along with members of Bergen County Arson Task Force in five 3 hour blocks. Can be applied toward Firefighter II.

Length/Schedule: 15 hours; offered every semester
Cost: none in-county; \$60 out-of-county

Fire and Arson Detection: Crime Scene Search

Designed for law enforcement personnel, prosecutors

Provides police officer with basic training methods needed to identify and understand the signs of arson. The police officer will also be able to process a crime scene and collect and safeguard evidence seized at the scene. Certificate of attendance awarded.

Length/Schedule: 2 days: usually offered once/semester
Cost: none in-county; \$75 out-of-county

Camden County College
P.O. Box 200, College Drive
Blackwood, New Jersey 08012
(609)227-7200

Fire Investigation

Introduces arson and incendiarism, arson laws, and types of incendiary fires. Students will learn methods of determining fire causes, recognizing and preserving evidence, interviewing and detaining witnesses, procedures in handling juveniles, court procedure and court testimony. Three credits; offered as part of an A.A.S. degree program in Occupational Safety/Protection Technology, Fire Science Option.

Length/Schedule: one semester: contact Camden County College for details
Cost: cost/credit: \$42 county residents; \$44 out-of-county

Essex Community College, West Essex Campus
730 Bloomfield Avenue
West Caldwell, New Jersey 07006
(201) 228-3968

Fire Investigations

Three credits; may be applied toward A.A.S. degree in Fire and Safety Science.

Length/Schedule: contact Essex Community College
Cost: fee/credit hour: \$55 in-county; \$110 out-of-county; \$165 out-of-state

Mercer County Community College
P.O. Box B
Trenton, New Jersey 08690
(609) 586-4800

Fire Investigation

Designed for fire service personnel

The study of fire investigation and detection, including inspection techniques; gathering of evidence; development of technical reports; fundamentals of arson investigation; processing of criminal evidence; criminal procedures related to various local and state statutes. Topics: introduction to fire investigation; chemistry and physics of fire: terminology; causes of fires; determination of fire causes; fire patterns; investigation; court procedure. Upon completion of the course, the student will be able to determine the causes and circumstances of a fire: describe the techniques for detecting incendiarism; list the proper methods of recognizing, protecting, and preserving evidence of incendiarism; interview and interrogate witnesses and suspects; analyze courtroom procedures and testimony involving arson cases. Three credits. No prerequisites.

Length/Schedule: 15 weeks: offered fall semester of odd numbered years
Cost: \$135 (\$45/credit plus \$6 per credit college fee)

Morris County Firefighters and Police Training Academy

P.O. Box 900

Morristown, New Jersey 07963-0900

(201) 285-2979

Arson Awareness

Designed for fire service personnel

Assists fire personnel in the identification and detection of arson. Offers a comprehensive program in basic arson detection. Topics include: law of arson; fire scene preservation, evidence collection and fire scene photography.

Length/Schedule: 10 weeks: contact Morris County Firefighters and Police Training Academy for details
Cost: \$75 in-county: \$90 out-of-county

New Jersey Chapter IAAI
c/o Edward Soper, Education Chair
1027 Highway 33 East
Freehold, New Jersey 07728
(908) 938-5323

Fatal Fire Investigation Seminar

Designed for law enforcement, fire service and insurance personnel
Prerequisite: should be actively involved in arson/fire investigation

Teaches students the proper method of investigation and preservation of evidence at fatal fire scenes. Topics: fire scene examination: post-mortem' examinations, Certificate of attendance awarded.

Length/Schedule: 8 hours: offered semi-annually (once in north and once in south part of state)
Cost: \$25 for chapter members, \$30 for non members

Automobile Fire Investigation Seminar

Designed for law enforcement, fire service and insurance personnel

Teaches students a systematic approach to auto fire investigation and demonstrates how fire relates to modern vehicles. Topics: investigation of auto/vehicle fires; scene examination: hands-on field examination. Certification of attendance awarded.

Length/Schedule: 8 hours; offered semi-annually
Cost: \$25 for chapter members, \$30 for non members

Advanced Arson Investigation Course

Designed for law enforcement, fire service and insurance personnel

Prerequisite: must have basic fire investigation knowledge

Further educates the basic investigator. Topics: insurance fraud; advanced evidence collection: organized crime arson; arson/explosion and narcotics. Certificate of completion awarded.

Length/Schedule: 3 days; contact New Jersey Chapter IAAI for details
Cost: contact New Jersey Chapter IAAI

New Jersey Division of Criminal Justice
Hughes Justice Complex
25 Market Street, CN 085
Trenton, New Jersey 08625
(609) 984-0960

Ninety Hour Criminal Justice Arson Investigation Course

Designed for law enforcement and fire service personnel
Prerequisite: must be recommended by County Prosecutor

Trains local and county investigators to investigate and prosecute arson, and to detect and apprehend violators. Covers all aspects of basic arson investigation. Upon completion of the course, student should be able to return to his/her department and assume duties of arson investigator. State certification awarded.

Length/Schedule: 90 hours: held annually in September
Cost: approximately \$200

New Jersey Special Investigators Association
P.O. Box 2423
Trenton, New Jersey 08611

Annual Insurance Anti-Fraud Seminar

The seminar covers the latest techniques in fraud detection, investigation and prevention, and regularly offers two arson-related sessions: structural arson and auto arson.

Length/Schedule: 2 days
Cost: \$75 (includes materials, lunch and reception)

New Jersey State Fire College
6 Commerce Drive
Cranford, New Jersey 07016
(908) 272-7712

Arson Photography Seminar

Presented in cooperation with Polaroid Corp./Mack Camera and Video. Provides the latest in arson photography technology. Employs classroom and extensive hands-on practical training utilizing state-of-the-art photographic equipment. Topics: principles of fire scene documentation; close up documentation of evidence; charred surface/remains - effective lighting; sequence images of scene; new technologies in imaging; video documentation/prints from video; close up images and handheld cameras. Students will receive a Polaroid Arson Enforcer Kit (which includes a Polaroid Spectra System Camera), student text materials and dual certification from the New Jersey State Fire College and Polaroid Corporation.

Length/Schedule: 8 hours
Cost: \$350 (includes \$230 - valued Spectra System Camera and Enforcer Kit); additional persons (maximum 2) from the same organization sharing the above kit: \$100 each

Ocean County College
College Drive
P.O. Box 2001
Toms River, New Jersey 08754-2001
(908) 255-0400

Elements of Arson Detection

Designed for law enforcement and fire service personnel

The student will conduct a comprehensive examination of the field of arson investigation and evaluate its implications for the fire service. Topics: combustion processes; fuels and accelerants; pyrolysis: investigation procedures and legal aspects. Three semesters hours; offered as part of an A.A.S. degree or certificate in Fire Science.

Length/Schedule: one semester; contact Ocean County College for details
Cost: fee/semester hour: \$45 in-county; \$55 out-of-county; \$90 out-of-state

Rutgers University Center for Government Services
P.O. Box 5079
New Brunswick, New Jersey 08903
(908) 932-3640

Rutgers Arson and Fire Conference

Designed for law enforcement, fire service and insurance personnel

Refresher for basic students. Topics: fire scene investigation: fatal fire investigations; insurance investigator's role; vehicle fires; explosives recognition. Certificate of attendance awarded. No prerequisites. Co-sponsored by New Jersey Chapter IAAI.

Length/Schedule: 3 days; offered annually in June
Cost: approximately \$175 without lodging; minimal fee for lodging on campus

Union County College
1033 Springfield Avenue
Cranford, New Jersey 07016
(908) 709-7579

Fire Causes and Detection

Designed for fire service personnel

Designed to acquaint career and volunteer firemen with basic aspects of arson investigation. Provides the student with an understanding of the history, development and philosophy of fire in investigation and detection, the gathering of evidence and development of technical reports, and the processing of criminal evidence and examination of criminal procedures as they relate to arson investigation. Three credits. Offered as part of an Associate in Applied Science degree. No prerequisites.

Length/Schedule: 16 weeks: offered once every other year
Cost: \$140

NEW MEXICO

Albuquerque Technical-Vocational Institute
Main Campus
525 Buena Vista Southeast
Albuquerque, New Mexico 87106
(505)224-3000

Fire Investigation

Introduces students to the techniques of determining fire origin and cause. Topics include fire scene search; legal aspects; motives; prevention strategies; interviews; arson case preparation techniques. Three credits.

Length/Schedule: one semester; contact Albuquerque Technical Vocational Institute for details
Cost: tuition/credit: \$24 resident; \$67 non-resident

Clovis Community College
417 Schepps Boulevard
Clovis, New Mexico 88101-8345
(505) 769-2811

Fire and Arson Investigation

A study of the detection of arson; investigation techniques; case histories; gathering and preserving of evidence: preparing for a court case; selected discussion of laws, decisions and opinions; kinds of arsonists; interrogation procedures; cooperation and coordination between fire fighters and arson investigators. Three credits.

Length/Schedule: one semester; contact Clovis Community College for details
Cost: tuition/credit hour: \$29 in-district; \$30 out-of-district; \$71 out-of-state

Dona Ana Branch Community College
Box 30001, Department 3DA
Las Cruces, New Mexico 88003
(505) 527-7643

Fire Investigations

Designed for fire service personnel

Introduces the student to fire/arson investigation and knowledge of such areas as building construction; chemistry (the nature of fuels); physics (behavior of fire); electricity (as a heat source): the law; motives; the human body's reaction to fire, and psychological disorders that are believed to be associated with fire setting behavior. Also teaches skills in interviewing, interrogation, surveillance, evidence handling, and courtroom testimony, among others. Three college credits. No prerequisites.

Length/Schedule: one semester; offered every 2 years: next scheduled in spring semester 1993
Cost: \$10 one-time college admission charge, \$87 tuition

New Mexico Chapter IAAI
c/o David Gatley
900 Alcalde Southwest
Albuquerque, New Mexico 87103
(505) 848-1360

Advanced Fire/Arson Seminar

Prerequisite: involvement in fire/explosive investigation

Provides continuing education for professionals in the field of fire/arson explosive investigation, emphasizing advanced training and exposure to top speakers in the field. Covers origin and cause; related topics: legal issues; always includes hands-on burn scenes. Certificate of completion awarded.

Length/Schedule: 38 hours (5 days): offered annually; next scheduled (tentatively) in September 1993
Cost: \$175 in advance, \$185 at the door, includes lunch; lodging approximately \$53/night

New Mexico Firefighters' Training Academy
P.O. Box 239
Socorro, New Mexico 87801
(505) 835-7500

Arson Detection

Designed for law enforcement and fire service personnel

Trains the student to recognize the indicators of arson, Topics: motivations; determining point of origin; accidental and incendiary fire causes; vehicle fire; fatal fires; legal aspects. Upon completion of the course, student will be able to recognize arson indicators and inform the proper authorities with some degree of certainty. Certificate of completion awarded. No prerequisites.

Length/Schedule: 16 hours; scheduled when enough students enroll for the class
Cost: no tuition; food and lodging costs vary

Fire/Arson Investigation

Designed for law enforcement and fire service personnel
Prerequisite: Arson Detection

Designed to enable the investigator to present a prosecutable case from fire scene to courtroom testimony, to be declared an expert witness in court, and to establish credibility as a fire investigator. Topics: behavior of fire: building construction; determining point of origin; accidental and incendiary fire causes; basics of insurance motivations; photography; sketching; evidence collection; wildland and vehicle fires; fatal fires; legal aspects. Certificate of completion awarded.

Length/Schedule: 40-45 hours; contact New Mexico State Firefighters' Training Academy for details
Cost: no tuition; meals and lodging varies

NEW YORK

Broome Community College
P.O. Box 1017
Binghamton, New York 13902
(607) 778-5000

Arson Investigation

Topics: fire investigations and arson; responsibilities of the arson investigator; tools of the investigator: photography; electronic devices; laws pertaining to arson; motives and tools of the arsonist; courtroom procedures: includes field experience. Three credits.

Length/Schedule: one semester; contact Broome Community College for details
Cost: tuition/credit: \$61 with residency certificate; \$122 for New York resident without residency certificate and out-of-state residents

Empire State College
SUNY Center for Distance Learning
2 Union Avenue
Saratoga Springs, New York 12866
(518) 587.2100

Advanced Fire/Arson Investigation

Designed for fire service personnel
Prerequisites: none, but student is expected to work at the advanced level

A study of various issues within arson/fire investigation. Designed to improve arson/fire investigation management. Topics: fire development; incendiary motivation; incendiary susceptibility; psychological and social motives; investigative techniques: arson prevention; arson information management systems; incendiary fire detection; constitutional issues. Upon completion, the student will have an increased understanding of the arson problem, the techniques of arson control, the methods of arson investigation, and applications to local arson situations. Four credits, upper level.

Length/Schedule: 16 weeks: next scheduled in Spring 1993
Cost: \$92.35/credit

Erie Community College, South Campus
4140 Southwestern Boulevard
Orchard Park, New York 14127-2199
(716) 648-5400

Fire Investigation

Topics: the firefighter's role in fire investigation; the method and mechanics of protecting, searching, and controlling the fire scene; determining the point of origin, path of fire travel, and fire cause; interviews and interrogations; recognizing and preserving evidence: state arson laws; alibis, motives, and proving the corpus delicti; preparation of the case, court testimony, reports, and records; juvenile fire setters. Three credits.

Length/Schedule: one semester: contact Erie Community College for details
Cost: fee/credit: \$51 part-time in-county; \$102 out-of-county, out-of-state

Insurance Committee for Arson Control
110 William Street
New York, New York 10038
(212) 669-9245

National Arson Investigation Training Seminar

Prerequisite: currently in the field of arson investigation. While primary attendance is by insurance personnel, fire service attorneys, independent adjusters and private investigators have attended.

Provides interactive workshops for students to learn about and be exposed to investigative techniques and related issues, from the basics to more advanced approaches. Past seminar topics have included: physical and chemical properties of fire; cause and origin: vehicle fires; paper chase/financial investigations, interviewing insureds and witness&; civil/criminal relationships, witness preparation, fire investigation case studies, defenses and contemporary legal issues, effective examination under oath; case management. Depending on level of expertise and which workshops attended, the student should leave with a greater understanding of necessary investigative techniques as well as public/private interface issues. Continuing professional development credits for CPCU or AAI.

Length/Schedule: two and one half days; held annually; next scheduled in March 1993, Atlanta GA
Cost: registration: \$200 ICAC member companies; \$250 non members: hotel \$110/night. Registration includes two lunches, three breakfasts, and a reception.

**John Jay College of Criminal Justice/CUNY
The Fire Science Institute
899 Tenth Avenue
New York, New York 10019
(212) 237-8650**

Fire/Arson Investigation Training

Fire/arson investigation training is available on request from the Fire Science Institute. Training is tailored to the requesting group's particular locale and needs.

**Mercy College
Criminal Justice Department
Social Science Building
Dobbs Ferry, New York 10522
(914) 693-4500**

Arson Investigation

Prerequisites: Introduction to Criminal Justice or Introduction to Safety Administration

An introduction to the problems and techniques of fire investigation: the chemistry of fire and the combustion properties of selected fuels; arson laws: types of incendiary fires; determining fire causes: recognizing and pursuing evidence: interrogation of adults and juveniles; court procedures. Three credits. Required as part of the major concentration in Public Safety with a specialization in Fire Science.

Length/Schedule: one semester; contact Mercy College for details
Cost: \$240/credit

**Monroe Community College
1000 East Henrietta Road
Rochester, New York 14623
(716) 292-2376**

Fire Causes and Arson Investigation

Designed for law enforcement, fire service and insurance personnel

Prerequisites: none; Building Materials and Construction, Fire Suppression Technology recommended

Covers the history, development and philosophy of fire investigation and detection. Trains students to thoroughly investigate a fire to accurately determine cause. A secondary objective is to enable the student to use this data to prevent fires. Topics: inspection techniques; gathering of evidence and development of technical reports: fundamentals of arson investigation; processing of criminal evidence and criminal procedures related to

various local and state statutes. Three credit hours.

Length/Schedule: one semester (45 hours); offered fall semester only

Cost: \$79/credit hour

**Nassau Community College
Criminal Justice Department, Nassau Hall
Garden City, New York 11530
(516) 222.7178**

Arson Investigation, Safety Management, OSHA Federal and State

Designed for fire service personnel

Prerequisite: active member of a fire service company in Nassau County

A study of arson, its prevention, detection, investigation and control. Examines occupational and environmental hazards, injuries and diseases, including toxic materials, radiation exposure, pollution and occupational diseases. OSHA, the safety enforcement agency, is reviewed, both at the federal and state level. Its purpose and effectiveness is thoroughly analyzed. The course emphasizes the need for safety management in both the public sector and the work place. The genesis of workers compensation law, its effectiveness, and present day status is assessed. Designed to improve the professional expertise of the volunteer firefighter and to encourage firefighters to pursue a college education (two year degree). Three credits.

Length/Schedule: one semester; offered spring/fall semesters, days and evenings
Cost: \$74/credit

**New York Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231-0001
(518) 474-6746**

Fire Behavior and Arson Awareness

Designed for law enforcement, fire service and insurance personnel

Teaches students to develop and apply observational skills related to recognizing suspicious and incendiary fires. Topics: principles of fire chemistry and behavior: the magnitude of the fire problem: scene preservation skills; observational skills related to recognizing suspicious and incendiary fires. Upon completion, using accepted procedures, students are expected to relate techniques in proper observational

skills and scene preservation. Prerequisite for Fire Investigator Level I, Fire Officer Level I and Firefighter certification. No prerequisites.

Length/Schedule: 12 hours; course dates obtained by contacting Frederick L. Warder Academy of Fire Science, Montour Falls, at (607) 535-7136, or Albany Arson Bureau Office at (518) 474-6746

Cost: \$20/course for New York residents; \$40 non-residents; on-campus meals and lodging: \$25/day

Cause & Origin Determination

Designed for law enforcement, fire service and insurance personnel

Trains fire officers and investigators to determine the cause and origin of fires, and to apply knowledge of fire behavior and building construction to accepted principles of point of origin determination and fire cause analysis. Topics: fire chemistry and behavior; point of origin determination: accidental and incendiary fire causes; fire scene documentation; legal aspects; concepts of building construction related to fire spread. Pre-requisite for Fire Investigator Level I and Fire Officer Level I certification. No prerequisite.

Length: 24 hours: schedule and cost same as above

Fire Investigation

Designed for law enforcement, fire service and insurance personnel

Prerequisite: Cause and Origin Determination

Teaches students to develop and apply skills related to the investigation of incendiary fires. Students apply learned techniques in course mockups, conduct hands-on investigation of structures and vehicles, and participate in case development and courtroom testimony. Topics: legal investigation of incendiary fires; case preparation and preservation; evidence handling and collection; handling special circumstances including vehicle fire and fatal fire investigation. Five college credits. Certification as part of prerequisite for Fire Investigator Level II.

Length: 80 hours; schedule and cost same as above

Interviewing for the Fire Investigator

Designed for law enforcement, fire service and insurance personnel

Prerequisite: Fire Arson Investigation or Cause and Origin Determination

Designed to improve the fire investigator's skills in conducting interviews and taking statements. Topics: recognizing and interpreting psychological and physical symptoms of stress and truthfulness: preparing oral, written, and stenographic case documentation. Students will apply accepted skills of interviewing and written documentation to mock scenarios. Certification credited to fire investigator in-service training. One college credit.

Length: 20 hours: schedule and cost same as above

Electrical Fire Cause Determination

Designed for law enforcement, fire service and insurance personnel

Prerequisite: Cause and Origin Determination

Designed to provide fire investigators with necessary knowledge and skills to prove or eliminate a fire cause of electrical origin. Students will demonstrate gained knowledge of electricity while using test equipment to trace circuitry and explain the relationship of a fire origin to an electrical source. Topics: theory of electricity; electrical systems; electricity as a fire cause. Point five (.5) college credits. Certification credited for fire investigator in-service training.

Length: 16 hours: schedule and cost same as above,

Arson Unit Management

Designed for law enforcement, fire service and insurance personnel

Prerequisite: Fire Arson Investigation

A management level course conducted for arson unit managers to enhance the effectiveness of their unit. Topics: case development; suspect profiling; scene and media management; AIMS; budget preparation; prevention programs. Upon completion, students will demonstrate gained skills of unit management by participating in mock scenarios. Point five (.5) college credits. Certification credited to fire investigator in-service training,

Length: 16 hours; schedule and cost same as above

Fire scene Photography for the Fire Investigator

Designed for law enforcement, fire service and insurance personnel

Prerequisite: Fire Arson Investigation or Cause and Origin Determination

Gives the fire investigator the necessary knowledge and skills to photographically document a fire scene in a

manner suitable for courtroom presentation. Topics: equipment operation and maintenance; flash techniques; fire scene documentation; dark room orientation; use of video. Upon completion, students will apply the accepted skills of photography to field mock-ups, demonstrating the proper methods of fire scene documentation. One college credit, Certification credited to fire investigator in-service training.

Length: 20 hours; schedule and cost same as above

Fire Arson Seminar

Designed for law enforcement, fire service and insurance personnel

Prerequisite: Cause and Origin Determination

Designed to acquaint the fire/arson investigator with current material relevant to aspects of fire/arson investigation. Addresses various related topics pertaining to current fire/arson investigation practices. Certification credited to fire investigator in-service training.

Length: 12 hours; schedule and cost same as above

K-9 Accelerant Detection

Designed for law enforcement and fire service personnel

Prerequisite: New York State certified Level II Fire Investigator or its equivalent

Trains fire investigators as K-9 Accelerant Detection handlers to assist them in locating combustible/flammable vapor residue on all types of fire scenes. Investigators apply learned techniques to conduct K-9 accelerant searches in pre-described areas and prepare all necessary reports for courtroom presentations. Topics: scent recognition of combustible/flammable vapor residue in four main hydrocarbon categories; scent discrimination between above and synthetic hydrocarbon materials: K-9 searches including buildings, vehicles, perimeter, open area, crowd and article searches; environmental conditioning, i.e., aerial trucks, helicopters; K-9 first aid; K-9 care and maintenance; basic obedience; report writing. Certification awarded: New York State Certified K-9 Accelerant Detection Team.

Length/Schedule: six weeks; 8 hours/day, Monday-Friday; offered a minimum of twice a year; next scheduled in March 1993

Cost: tuition: \$550 (includes training, course materials and dog); room and board available at Fire Academy: \$125/week for six weeks (includes dinner Sunday through lunch Friday)

**New York State Fire Investigators
(New York Chapter IAAI)
c/o Craig Corey, Secretary
P.O. Box 16267
Rochester, New York 14616
(716) 723-8276**

Spring and Winter Seminars

Each seminar six hours in length. No further information submitted.

**Onondaga Community College
Fire Protection
Route 173
Syracuse, New York 13215
(315) 469-7741**

Fire Investigation

Designed for law enforcement, fire service and insurance personnel

Prerequisite: Introduction to Fire Protection or permission of instructor

Deals with the proper methods of investigating fires, both accidental and incendiary. The fundamentals of arson investigation are covered including handling of evidence, liaison with the police services in criminal fires, interrogation of witnesses, use of photography and scientific aids to investigation. Three credits; offered as part of a program leading to an A.A.S. degree in Fire Protection Technology.

Length/Schedule: one semester; offered annually in spring semester, only in evening; contact Onondaga Community College for details
Cost: tuition/credit hour: \$65 in-county; \$139 out-of-county; \$195 out-of-state

**Rockland Community College
College Road
Suffern, New York 10901
(914) 574-4000**

Investigation and Detection of Fire Incidents

Designed for law enforcement, fire service and insurance personnel

Trains fire fighters who are responsible for detection and/or identification of arson (unlawful burning/incendiary fires). Topics: behavior of fire; building construction and fire scene examination; motivation of the fire-setter: determining point of origin: accidental fire causes: fatal fires; vehicle fires; evidence collection and preservation: bomb scene procedures: legal aspects.

Upon completion of this course, the student will be able to determine the origin and cause of a fire; properly secure the fire scene; identify motives associated with the crime of arson; identify, collect and preserve the evidence. Three credits, No prerequisites.

Length/Schedule: 15 weeks; offered 2 times a year
Cost: \$219 in-county; \$438 non-residents

Schenectady County Community College
78 Washington Avenue
Schenectady, New York 12305
(518) 346-6211

Fire Investigation

Designed for fire service and insurance personnel

Designed to teach students to make a useful investigation and identify sets of circumstances and situations which may indicate fire cause; to interview witnesses; to prepare detailed reports of fire investigations using systems approach; and to explain the provisions of New York State's Arson Law. Emphasizes elements of fire, combustion properties of fuel, pyrolysis, burn patterns, ignition sources, and explosions. Other topics: rules of evidence: fire setters and motives: fire setting devices and accelerants; tracing the point of origin; determining the cause; the investigation: records and data collection; forensic lab; juvenile fire setting; arson law and court procedures; investigation and conviction. Three credits. Offered as part of a Fire Protection Technology degree. No prerequisites.

Length/Schedule: 15 weeks, 3 hours/week; offered every two to three years depending on demand
Cost: approximately \$250

Suffolk County Arson Task Force
P.O. Box 127
Yaphank, New York 11980-0127
(516) 852-4853

Fire Behavior and Arson Awareness

Designed for law enforcement, fire service, and insurance personnel

Designed to assist firefighters in understanding the magnitude of the fire problem, and to motivate them to accept the responsibility for arson awareness. Also enables the student to understand the basic concepts of fire chemistry and the normal progression of fire. Topics: introduction to fire behavior and arson awareness, scope of the arson problem, concepts and behavior of fire, observational skills, overhaul, and fire scene preservation. Upon completion of the course, the stu-

dent will be more aware of the contributing factors leading to an incendiary fire. Suppression personnel will be able to apply this awareness while fighting actual fires. Certificate awarded. No prerequisites.

Length/Schedule: 12 hours; offered annually
Cost: none

Arson Recognition Workshop

Designed for fire service personnel

Topics: basic cause and origin; fire behavior; arson recognition; the role of the police department, the arson squad, and the district attorney. Practical field exercises include observation of flammable liquids, examination of a burned motor vehicle, and an arson simulation training center (reburnable structure). By the end of the course, the firefighter will have acquired sufficient knowledge to recognize incendiary fires in the field, secure the scene and contact the appropriate investigatory agency. Certificate awarded. No prerequisites.

Length/Schedule: 6 hours; offered each spring and fall
Cost: none

Cause and Origin Determination

Designed for law enforcement, fire service, and insurance personnel

Teaches the firefighter how to make proper cause and origin determination. Topics: review of fire concepts and behavior: building construction; determining point of origin; accidental fire causes; motives for incendiarism; indicators of incendiarism; vehicle fires; legal aspects; fatal fires; fire scene drawing; evidence collection; interviewing and practical field exercises. By the end of the course, the student will be able to recognize incendiary fires, and identify, collect and preserve evidence to determine facts and events leading to fires. The student will also be able to prepare necessary reports, forms and sketches which will stand as permanent records of investigations. Certificate awarded. No prerequisite.

Length/Schedule: 24 hours; offered annually
Cost: none

Juvenile Firesetting: Problem Assessment and Intervention

Designed for law enforcement and fire service personnel

This course will enable fire investigators and law enforcement personnel to deal with juvenile firesetters once it has been determined that the cause of the fire is a juvenile firesetter. Topics: psychology of juvenile firesetting; assessment of juvenile firesetting behavior; intervention and treatment. By the end of the course, the student will demonstrate an ability to differentiate between normal fire interest and fire risk behavior. Additionally, the student will demonstrate an ability to intervene and treat a variety of juvenile firesetter cases. Certificate awarded. No prerequisites.

Length/Schedule: 9 hours; offered annually
Cost: none

Suffolk County Community College
Ammerman Campus, Riverhead Building
533 College Road
Selden, New York 11784-2899
(516) 451-4274

Arson and Fire Investigation

Designed for law enforcement, fire service and insurance personnel

Designed to increase awareness of arson and fire investigation. Topics: the history, development and philosophy of arson detection; prosecutorial steps; discussion of the socio/economic conditions behind the alarming rise in the number of incendiary fires; examination of investigatory skills, interrogation, recordkeeping, reports, court procedure; study of federal, state and local arson laws; study of chemistry of fire and explosions. By the end of the course, the student will have gained competency in matters related to arson and fire investigation. Three credits. No prerequisites. Applicable to certificate program in Arson and Fire Investigation, and to A.A.S. degree in Fire Protection Technology.

Length/Schedule: one semester; contact Suffolk County Community College for details
Cost: tuition approximately \$75/credit

NORTH CAROLINA

Alamance Community College
P.O. Box 623
Haw River, North Carolina 27258
(919) 578-2002

Arson Investigation

Focuses on determining the causes of accidental and incendiary fires, fire loss, and points of origin. Covers

motives and methods of fire setting, as well as investigative techniques. The student acquires skills in recognizing arson and preserving the fire scene. Five credits.

Length/Schedule: one quarter; contact Alamance Community College for details
Cost: tuition/credit hour: \$8.75 for resident; \$81.75 for non-resident

Central Piedmont Community College
P. O. Box 35009
Charlotte, North Carolina 28235
(704) 342-6705

Arson Investigation I

Designed for law enforcement, fire service and insurance personnel

Covers various topics including basic chemistry and behavior of fire: role of the firefighter; scene preservation: evidence; burn patterns; electrical fires: vehicle fires; explosions: profile of the arsonist; juvenile arson problem; arson laws. Four credits. No prerequisites.

Length/Schedule: 33 hours lecture, 22 hours lab, offered every other year (next scheduled in 1994)
Cost: \$46 in-state; \$430 out-of-state

Arson Investigation II

Designed for law enforcement, fire service and insurance personnel
Prerequisite: Arson Investigation I

Topics include: arson investigation procedures and management systems; laws of burning and unnatural burn patterns; preservation of fire scene and protecting the corpus delicti; data collection systems; crime scene photography and sketching; evidence and evidence collection equipment; field notes: records; follow-up investigation procedures: motive versus intent; arson devices and accelerants; interviews and interrogations; testifying in court as an expert witness. Four credits.

Length/Schedule: 33 hours lecture, 22 hours lab; offered every other year (next scheduled in 1994)
Cost: \$46 in-state; \$430 out-of-state

Coastal Carolina Community College
444 Westrien Boulevard
Jacksonville, North Carolina 28540
(919) 938-6192

Arson Detection and Investigation

Topics: the determination of causes of accidental and incendiary fires; fire losses; points of origin; location and preservation of physical evidence; use of scientific equipment to determine types of accelerants. Emphasis is placed on courtroom procedure in presenting evidence. Upon completion of this course the student will be able to recognize the motives of unlawful burning; determine the cause and origin of fire; describe the role of the fire department in arson detection; describe the importance of documentation in collecting evidence; have familiarity with current arson problems. Four quarter hours. No prerequisites.

Length/Schedule: 55 hours; offered every 10 quarters; next scheduled in summer 1994
Cost: \$46 plus text

Craven Community College
South Glenburnie Road at College Court
P.O. Box 885
New Bern, North Carolina 28563
(919) 638-7246

The Firefighter's Role In Fire Cause and Origin

Designed for law enforcement and fire service personnel
Prerequisite: active member of a fire department or law enforcement agency

Encompasses determining the cause and origin of all structural fires; identification of burn patterns; labeling and preserving fire evidence: arson law. Assists fire personnel in determining the difference between accidental and incendiary fires, and the aspects of arson investigation leading to trial. One point four (1.4) continuing education units.

Length/Schedule: 14 hours: held the last weekend in September
Cost: \$15 (includes two meals); lodging varies from \$35-\$65/night

Arson: Ignition to Conviction

Designed for law enforcement and fire service personnel
Prerequisite: active member of a fire department or law enforcement agency

Designed for the experienced firefighter, the inexperienced fire investigator, and law enforcement officers. Covers fire scene review, follow-up investigation, working with the prosecutor, understanding the judicial

system, evidence, and testifying in court. Much of the information is basic for the experienced investigator; however, it can also serve as continuing education for anyone. One point four (1.4) continuing education units.

Length/Schedule: 14 hours; held the last weekend in September
Cost: \$15 (includes two meals); lodging varies from \$35-\$65/night

Durham Technical Community College
1637 Lawson Street
Durham, North Carolina 27703-5023
(919) 598-9224

Arson Investigation

Focuses on determining the causes of accidental and incendiary fires, fire loss, and points of origin. Covers motives and methods of fire setting as well as investigative techniques. The student acquires skills in recognizing arson and preserving the fire scene. Five credits. No prerequisites.

Length/Schedule: one quarter; contact Durham Technical Community College for details
Cost: tuition/credit hour: \$8.75 for resident: \$81.75 for non-resident

Gaston College
201 Highway 321 South
Dallas, North Carolina 28034-1499
(704) 922-6200

Fire Detection and Investigation

Covers motives for and methods of fire setting, and investigative techniques. Topics: determination of cause of accidental and incendiary fire; fire losses and loss of records; points of origin; location and preservation of physical evidence; scientific aids to investigation; courtroom procedure in presenting evidence. Three credits: offered as part of an A.A.S. degree program in Fire Science.

Length/Schedule: one quarter: contact Gaston College for details
Cost: fee/credit hour: \$11.50 in-state; \$107.50 out-of-state

Guilford Technical Community College, Greensboro
501 West Washington Street
Greensboro, North Carolina 27401
(919) 334-3177

Fire Detection and Investigation

Studies determination of cause of accidental and incendiary fires, fire losses and loss of records, points of origin, location and preservation of physical evidence, and scientific aids to investigation. Includes courtroom procedures in presenting evidence, motives and methods for firesetting, and investigation methods. Three credits; offered as part of a program leading to an associate degree in Fire Protection Technology.

Length/Schedule: one quarter; contact Guilford Technical community college for details
Cost: in-state tuition: \$26.25; out-of-state: \$245.25

North Carolina Chapter IAAI
c/o Nancy H. Johnson, Secretary
14039 Woody Point Road
Charlotte, North Carolina 28278
(704) 329-2520

Annual Fire Investigation Seminar

Designed for law enforcement, fire service and insurance personnel

Designed to improve overall quality of fire investigation in North Carolina. Assists attendees in meeting the objectives of NFPA 1033 and enhances opportunities for certification as a fire investigator by the North Carolina Fire and Rescue Commission. Topics vary, but are generally cause and origin related. Certificates awarded to those attendees successfully completing the written examination. No prerequisites.

Length/Schedule: 3 days; held annually
Cost: \$50 registration

Advanced Investigative Approaches

Designed for law enforcement, fire service and insurance personnel

Designed to expose people to innovative approaches to investigative activities. Topics vary from seminar to seminar, No prerequisites.

Length/Schedule: 5 days: next scheduled in March 1993
Cost: no tuition fee for fire service and law enforcement personnel; approximately \$25 for others

Basic arson Seminar

Designed for law enforcement, fire service and insurance personnel

Designed to introduce all disciplines to the fire scene. Topics: role of fire service; role of the insurance adjuster; role of the chemist; motives of firesetters; fire origin and cause; role of the law enforcement officer; role of the canine in arson investigation; importance of court testimony. Upon completion of the course, the student will have a basic understanding of what does occur in arson investigation, and what needs to occur. Certificate offered by community college. No prerequisites.

Length/Schedule: 18 hours; offered 3-4 times a year
Cost: approximately \$25

North Carolina Justice Academy
P.O. Drawer 99
Salemburg, North Carolina 28385
(919) 525-4151

Arson Investigation

Designed for law enforcement, fire service and insurance personnel

Prerequisite: should be investigator from law enforcement or fire service agency

Provides the skills necessary to increase the law enforcement and fire service investigator's proficiency in arson and unlawful burning investigations. By the end of the course, the student will be able to write an application for an administrative search warrant pertaining to an arson investigation; explain the general motives of arsonists; identify the psychological, sociological and criminological variables characteristically associated with arsonists; recognize points of origin, "V" patterns, depth of char, fire spread, and accidental and incendiary fire causes; in practical exercises, demonstrate proper procedures for protecting a fire scene and collecting and preserving, arson evidence. Tested.

Length/Schedule: 5 days; contact North Carolina Justice Academy for details
Cost: none

Preliminary Arson Investigation

Designed for law enforcement and fire service personnel
Prerequisite: should be uniformed, non-investigative law enforcement personnel and firefighters

Provides information necessary to increase the law enforcement and fire service personnel's proficiency in fire scene protection and the basic fundamentals of preliminary arson identification. Each student will be required to develop and complete a hypothetical

preliminary arson investigation report consisting of investigative notes and sketches, complete a receipt for evidence and document chain of custody, conduct a preliminary interview, and obtain written statements. Upon completion of the course, the student will be able to demonstrate necessary procedures to protect and secure a fire or arson scene; write investigative notes and maintain the chain of custody of physical evidence; recognize "V" patterns, fire spread, flammable liquid indicators and spalling; draw a rough fire scene sketch; in practical exercises, demonstrate the ability to process a hypothetical fire scene by preparing investigative notes, sketches and evidence forms.

Length/Schedule: 3 days; contact North Carolina Justice Academy for details.
Cost: none

North Carolina State Bureau of Investigation
3320 Old Garner Road
P. O. Box 29500 NCSBI
Raleigh, North Carolina 27626-0500
(919) 662-4500

Arson Investigation

Designed for SBI agents and occasionally offered to invited fire and police investigators from local departments

Length/Schedule: 2 days
Cost: none

Wake Technical Community College
9101 Fayetteville Road
Raleigh, North Carolina 27603-5696
(919) 772-0551

Arson and Unlawful Burning

Designed for fire service personnel

Offered as a special extension class taken directly to individual firefighting groups.

Length/Schedule: contact Wake Technical Community College
Cost: contact Wake Technical Community College

Wilson Technical Community College
902 Herring Avenue
Wilson, North Carolina 27893
(919) 291-1195

Fire Detection and Investigation

Designed for fire service

A study of the many complex procedures involved in investigations of fires, including various methods of determining points of origin, investigative techniques, and courtroom procedures. Topics: fire; arson; arrests and convictions; determining the cause and point of origin; fire hazards and fire causes; determining what accelerant was used; methods of analyzing accelerants; explosions; chemicals; motives and behavioral patterns of arsonists; preservation of evidence; arson laws; presentation of evidence to District Attorney; cooperation with the district attorney; essential knowledge for police officers and firefighters. Lab sessions will round out students' knowledge of methods of recognizing burn patterns and gathering of evidence for presentation in court. Six quarter credit hours. No prerequisites.

Length/Schedule: one quarter; offered every 10 quarters
Cost: tuition/credit: \$13 in-state; \$108 out-of-state

NORTH DAKOTA

North Dakota State Fire Marshal
1835 Bismarck Expressway
Bismarck, North Dakota 58504
(701) 221-5390

Fire/Arson Detection

Designed for law enforcement and fire service personnel

Improves skills in determining fire causes through understanding of motives and examination of evidence; Topics: fire setters/motivation; determining origin; fire causes; vehicle fires; legal aspects. Upon completion of the course, student will have the ability to successfully determine the origin and cause of fires and detect the crime of arson. Fire Marshal's Certificate awarded., No prerequisites.

Length/Schedule: 15-16 hours; offered 3-4 times a year or as requested by local organizations
Cost: no cost for class; students responsible for meals and lodging

OHIO

Cuyahoga Community College, Metro Campus
2900 Community College Avenue
Cleveland, Ohio 44115
(216) 987-4384

Fire Investigation Methods 235 and 236

Designed for fire service personnel
Prerequisite: Introduction to Fire Science: work experience desirable

Designed to train firefighters in arson procedures, evidence preservation at the scene and accurate and thorough report writing. Topics: arson laws; interrogation of witnesses; use of photography in arson: collecting evidence at the scene; preparation of reports: presentation of evidence in court; adjustment of losses. By the end of the course, students will be alert to arson investigators' requirements and evidence needed for court. College credit awarded toward the Associate Degree in Fire Technology.

Length/Schedule: each course is 33 hours; offered once a year

Cost: 93.75 tuition plus books

Department of Commerce
Division of State Fire Marshal
8895 East Main Street
Reynoldsburg, Ohio 43068
(614) 752-7106

Ohio Arson School

Designed for arson investigators, law enforcement, insurance investigators, F.B.I., etc.

Topics: why do kids set fires; cults; fire deaths: drug houses; investigative aids; homicide; scene management; set to cell; high temperature accelerants; case management; interview techniques; post blast explosion investigation. Certificate awarded, documenting 40 hours of training. Offered in cooperation with Ohio Chapter IAAI and Ohio University.

Length/Schedule: 40 hours (5 days); held annually, first week of August
cost: \$175

Arson Seminar for Ohio Prosecutors and Judges

Designed for judges, prosecutors, assistant prosecutors, attorneys

Topics vary; examples: role of the arson investigator: evidence collection/preservation/chain: laboratory analysis; computer graphics; how to win or lose an arson case; prosecuting arson cases. Six credit hours continuing legal education (CLE).

Length/Schedule: 1 day
cost: \$25

Southern Ohio Arson Seminar

Designed for law enforcement, fire service and insurance personnel
Prerequisite: arson investigator

Topics vary; examples: recognition, collection and preservation of evidence; fire scene photography; interviewing: use of the polygraph. Sponsored by the Southern Ohio Fire and Arson Investigators Association in cooperation with the Division of State Fire Marshal, the Ohio Chapter of the IAAI, and Portsmouth Fire Department.

Length/Schedule: 2 days; held annually; contact Jack Pyle for further information
Cost: \$45 plus hotel

Greater Cincinnati Regional Fire Arson Investigators Seminar
P.O. Box 75067
Cincinnati, Ohio 45275

Greater Cincinnati Regional: Fire Arson Investigators Seminar

Designed for law enforcement, fire service and insurance personnel
Prerequisite: arson investigator

Designed to educate fire, police, and public and private agency personnel in the science of fire investigation, arson detection and prosecution. Topic examples: basic fire investigation; juvenile fire setters; anatomy of a paper chase; interrogation: shortcomings of criminal and civil investigation that are in process: interviews; mobile home fires. Continuing education units offered.

Length/Schedule: 2 days: held annually
Cost: \$60 plus lodging

Hocking College
3301 Hocking College Parkway
Nelsonville, Ohio 45764
(614) 753-3591

Fire Investigation Methods

Designed for law enforcement and fire service personnel

A study of the principles of fire investigations including recognition, preservation, collection and, presentation of arson evidence. Provides an overview of the fire-fighter's responsibilities for determining causes of fire, fire scene procedures, and other factors that can assist fire investigators. Covers defining and determining the point of origin and probable causes of fire, identifying possible arson cases, preserving the fire scene and evidence for investigation purposes, and identifying the initial steps in an arson investigation. Additional topics: arson laws; interrogation of witnesses; application of photography: preparation of reports and adjustments of insured losses; estimation of loss due to fire, smoke and water. Certificate of completion awarded. Three credits. No prerequisite.

Length/Schedule: 10 weeks (approximately 50 hours); contact Hocking College for details
Cost: \$150 tuition; motel on campus, call concerning rates

Kent Fire Education Conference
c/o Don Beckett
320 South Depeyster Street
Kent, Ohio 44240
(216) 673-8814

Kent Fire Education Conference

Designed for fire service personnel

The conference generally includes a 3-6 hour class devoted to some aspect of fire/arson investigation.

Length/Schedule: 1 day; held annually; next scheduled in March 1993
cost: \$15

Lakeland Community College
7700 Clocktower Drive
Mentor, Ohio 44060.7594
(216) 953-7000

Fire Investigation Methods

Involves a systematic approach to the investigation of fires, including legal aspects, determination of cause and origin, and preparation of a court case. Both accidental and incendiary fires will be covered. Four credits.

Length/Schedule: one quarter
Cost: fee/credit hour: \$39.15 in-county; \$45 in-state; \$93.23 out-of-state

Forensic photography

Provides basic skills in forensic photography, the study of the rudiments of photographic preservation and documentation of criminal or civil evidence. Emphasizes the application of photography as an integral part of the investigative process. Three credits.

Length/Schedule: one quarter
Cost: fee/credit hour: \$39.15 in-county; \$45 in-state; \$93.23 out-of-state

Lorain County Community College
1005 North Abbe Road
Elyria, Ohio 44035
(216) 365-5222

Fire Investigation Methods I

Topics: principles of fire investigation; arson laws; interrogation of witnesses; application of photography; preparation of reports; adjustments of insured losses. Three credits.

Length/Schedule: one quarter
Cost: tuition/credit: \$45-\$55 in-state; \$116 out-of-state

Fire Investigation Methods II

Continuation of Fire Investigation Methods I, with emphasis on preparation of reports and collection and presentation of arson evidence in court. Three credits.

Length/Schedule: one quarter
Cost: tuition/credit: \$45-\$55 in-state; \$116 out-of-state

Midwestern Ohio Arson Seminar Inc.
c/o Robert Guillozet
201 West Poplar Street
Sidney, Ohio 45365
(513) 498-2346

Annual Midwestern Arson Seminar

Designed for law enforcement, fire service and insurance personnel
Prerequisite: permission from the head of the investigator's agency

Designed to train firefighters, law enforcement officers, and insurance investigators what to look for and how to distinguish between an accidental fire and a possible arson. Prepares investigators for what to expect and

how to prepare a case for the court system. A different topic is presented each year. In 1993 the topic will be Automobile Fires - Accident or Arson. Continuing education units available from Ohio Department of Education, Division of Vocational and Career Education: certificate of training awarded to students who pass test. Offered in cooperation with Ohio State Fire Marshal's Office and Ohio Chapter IAAI.

Length/Schedule: 2 days; held annually; next scheduled in March 1993; April 1994
Cost: \$35 registration fee (includes 1 meal each day)

National Society of Professional Insurance Investigators
P.O. Box 85
Centerburg, Ohio 43011
(800) 282-5108

Advanced Insurance Fraud Seminar

Designed for independent adjusters, investigators, attorneys and insurance industry personnel

Includes sessions on arson-related topics, for example: litigation strategy in arson/fraud defenses; cause and origin techniques.

Length/Schedule: one and one half days: held annually in November
Cost: \$90 for members (includes one lunch); \$105 for non-members

Northern Ohio Arson Seminar
c/o Chief Ron E. Baker
Ashland Fire Department
274 Cleveland Avenue
Ashland, Ohio 44805
(216) 289-6511

Northern Ohio Arson Seminar

Designed for law enforcement, fire service and insurance personnel
Prerequisite: arson investigator

Topics vary; examples: origin and cause; auto fires; kinesics (body language); mobile home fires; case preparation: how fire departments can get help. Sponsored by Regional Committee and the Ohio Chapter of the IAAI in cooperation with the Ashland Fire Department and the Division of the State Fire Marshal's Office.

Length/Schedule: 2 days; held annually
Cost: \$30/day plus hotel

Northwest Ohio Arson Seminar
c/o David Sidebottom
5212 Hill Avenue
Toledo, Ohio 43615
(614) 752-7108

Northwest Ohio Arson Seminar

Designed for law enforcement, fire service and insurance personnel
Prerequisite: Arson Investigator

Topics vary; examples: testifying in court; tour of fire scenes; link analysis; collection and preservation of evidence; fatal fires. Offered in cooperation with Northwest Ohio Volunteer Firemen's Association, Medical College of Ohio, Division of State Fire Marshal, Ohio Chapter of the IAAI.

Length/Schedule: 2 days; held annually
Cost: \$45 plus hotel

Ohio Fire Academy
8895 East Main Street
Reynoldsburg, Ohio 43068
(614) 752-8200

Arson Investigation I

Designed for law enforcement, fire service and insurance personnel
Prerequisites: enrollment limited to personnel appointed as law enforcement or fire department investigators or insurance adjusters

Topics: behavior of fire; accidental and incendiary fire causes: fire scene investigations; evidence preservation and collection. Upon completion of the course, participants will be able to determine fire origin and cause, and collect facts and evidence pertinent to the incident. Certificate of completion awarded.

Length/Schedule: 36 hours: offered several times a year
Cost: \$75 registration fee: lodging \$10/night; meals additional

Arson Investigation II

Designed for law enforcement, fire service and insurance personnel
Prerequisite: Arson Investigation I

Helps students develop skills in special fire investigations, determining the motives of firesetters, and investigative techniques. Topics: pattern recognition: vehicle and fatal fires; explosions and explosives. Certificate of completion awarded.

Length/Schedule: 36 hours; contact Ohio Fire Academy for details
Cost: \$75 registration fee; lodging \$10/night; meals additional

Arson Investigation III

Designed for law enforcement, fire service and insurance personnel
Prerequisite: Arson Investigation II

Prepares the investigator to successfully manage an arson investigation and to prepare for court. Through individual and group activities, students will develop techniques and practices needed to gather data and information necessary to complete an investigation. Topics: interview and interrogation: surveillance techniques; flow charting and link analysis: court preparation. The Ohio Fire Academy Arson Investigation Series meets the training and educational requirements identified in the NFPA 1031-1982 Professional Qualification Standards for Fire Investigator. Certificate of completion awarded.

Length/Schedule: 36 hours; contact Ohio Fire Academy for details
Cost: \$75 registration fee; lodging \$10/night; meals additional

Fire/Arson Detection

Designed for law enforcement, fire service and insurance personnel

Developed by the National Fire Academy, this two-day course provides an overview of the fire officer's and firefighter's responsibilities for determining causes of fire and fire scene procedures. Topics: motivation of the fire setter; determining point of origin; fire causes: accidental and incendiary; legal aspects. Certificate of completion awarded. No prerequisites.

Length/Schedule: 12 hours; contact Ohio Fire Academy for details
Cost: \$20 registration fee; lodging \$10/night; meals additional

Fire Scene Photography

Designed for law enforcement, fire service and insurance personnel

Topics: use of pictures to support verbal descriptions of fire scenes; explanation of courtroom procedures; discussion of necessity to use photographs to convey findings to persons who may not understand fire

chemistry, and to refresh memories. Certificate of completion awarded. No prerequisites.

Length/Schedule: 1 day; contact Ohio Fire Academy for details
Cost: \$10 registration fee; lodging \$10/night; meals additional

Juvenile Firesetters

Designed for law enforcement, fire service and insurance personnel

Designed for fire safety educators or fire investigators who have the responsibility to interview juvenile fire-setters. Through group activities, students will learn to determine if the child's fire setting behavior can be treated through fire safety education, or if it is a symptom of problems requiring referral to mental health. Topics: characteristics of fire setting behavior for age groups 4-7, 7-10, and 11-14; interviewing techniques to classify fire setting behavior; methods of establishing a community fire setter's referral program. Certificate of completion awarded. No prerequisites.

Length/Schedule: 12 hours; contact Ohio Fire Academy for details
Cost: \$30 registration fee; lodging \$10/night; meals additional

Juvenile Fire Setters Level II

Designed for law enforcement, fire service and insurance personnel

Prerequisites: Juvenile Fire Setter course plus 6-12 months experience working with children

Designed for Fire Safety Educators or investigators who have completed the two day Juvenile Fire Setter course. The Level II class will provide additional training in the two most difficult aspects of working with fire setters: interview techniques for young children, and dealing effectively with the adolescent fire setter. Topics: techniques of interviewing young children; characteristics of adolescent fire setters; strategies for successfully dealing with adolescent and delinquent fire setters. Certificate of completion awarded.

Length/Schedule: 1 day; contact Ohio Fire Academy for details
Cost: \$20 registration fee; lodging \$10/night; meals additional

Sinclair Community College
444 West Third Street
Dayton, Ohio 45402-1460
(513) 226-3000

Fire Investigation Procedures

Prerequisite: Introduction to Fire Science or permission of instructor

Topics: techniques used to determine the point of origin and cause of a fire; methods and motives for fire setting; state of Ohio statutes on arson and related offenses; trial preparation and presentation. Four credit hours; offered as part of a six quarter program in Fire Science Technology.

Length/Schedule: one quarter; contact Sinclair Community College for details
Cost: fee/credit hour: \$29 in-county; \$39 out-of-county; \$59 out-of-state

Stark Technical College
6200 Frank Road Northwest
Canton, Ohio 44720
(216) 494-6170

Fire Investigation Methods **Legal Aspects of Fire Investigation and Prevention** **Arson**

Designed for fire service personnel

Each course awards three credits. Offered as part of an Associate Degree program in Fire Science.

Length/Schedule: each course lasts one quarter (changing to semesters in 1993); contact Stark Technical College for details
Cost: \$43,50/quarter plus books

The University of Akron
Simmons Hall, 61A
Akron, Ohio 44325-4304
(216) 972-7789

Fire Investigation Methods

Designed for law enforcement, fire service and insurance personnel

Prerequisites: Introduction to Fire Protection or Introduction to Criminal Justice

Designed to prepare firefighters to assist in on-scene fire investigations; to prepare law enforcement officers to assist with (or conduct) a fire investigation, and to prepare graduates for a career as a private fire investigator. Topics: laws and codes relating to fire investigation; nature and behavior of fires and types of fuels; ignition sources; fire scene evaluation, documentation etc.; structure fire investigation; vehicle fire investigation: electrical fire determination; clothing and fabric

fires; report preparation: fire related deaths: preparing for court. By the end of the course, the student should be able to recognize and identify various fuel sources, prepare a written report, conduct a comprehensive structure fire investigation, and identify the various laws and codes that impact fire investigations. Three semester credits.

Length/Schedule: 15 weeks; offered in both fall and spring semesters each year
Cost: fee/credit: \$112 in-state; \$256 out-of-state

University of Cincinnati
Open Learning Fire Service Program
220 Victory Parkway, ML #103
Cincinnati, Ohio 45206
(513) 556-6583

B.S. in Fire and Safety Engineering Technology, **Fire investigation Concentration**

Prerequisites: high school graduate or GED and associate degree in Fire Science, or equivalent. Individuals wishing only to take Open Learning Fire Service courses to learn more about a particular subject without pursuing a degree program may do so. Region served by University of Cincinnati includes Florida, Indiana, Georgia, Michigan, Minnesota, North Dakota, South Dakota, Ohio, Wisconsin, Manitoba and Ontario.

Fire service courses are taken by interactive correspondence. Basic requirements for the B.S. degree include Fire Service Core Courses: 30 credits; Fire Investigation Concentration: 20 credits; Mathematics/Computing Technology: 12 credits; Humanities: 15 credits; Independent Research in Arson Investigation: 17 credits (94 total credit hours required). Certificate of Completion (six courses) available from NFA and UC for non-degree seeking students. B.S. diploma is, accompanied by a letter indicating the specific concentration in fire investigation. The Fire Investigation Concentration includes the following four courses:

Fire Determination Strategies

Covers fire scene investigation: causal and chemical reactions; evidence analysis and preparation; report preparation; and courtroom behavior. (Formerly called Fire Causes and Detection)

Fire-Related Human Behavior

Examines the dynamics of human behavior in fire incidents as related to fire prevention programs, codes; and ordinances; concepts of role, personal invulnerability, risk and group dynamics, as related to the design aspects of buildings; and efforts to mitigate the effects

of fire in modern society. The psychological effects of communications during emergencies and the conduct of post-fire interviews are discussed.

Incendiary Fire Analysis and Investigation

Presents a management approach to the arson problem, including a variety of programs and resources available to control incendiary crime. Topics covered include: phenomenon and propagation variables: the legislative, economic, psychological, and sociological variables of incendiary fire; data analysis and prediction techniques: examination of the procedures and techniques for collection, comparison, and analysis of physical evidence relative to the area of fire origin.

Fire Dynamics

A study of the fluid mechanics and thermodynamic principles of fire propagation. Topics include fuel and air regulated phase; pre- and post-flashover fire development, and the geometric, material, gaseous, fluid, and thermodynamic parameters affecting fire development, using compartment and building models. A pre-engineering course, students should have a solid math background before taking this course.

Length/Schedule: contact University of Cincinnati
Cost: tuition/credit: \$92

Warren County Arson Task Force
3378 Townsley Drive
Loveland, Ohio 45140

Warren County Arson Task Force

Designed for law enforcement, fire service and insurance personnel
Prerequisite: arson investigators/fire service etc.

Topics vary: examples: fingerprinting; photography; evidence; K-9 special training; crime scene sketching; devices; cults. Sponsored by the Warren County Arson Task Force and the Ohio Chapter of the IAAI in cooperation with the State of Ohio Arson Bureau.

Length/Schedule: 2 days; offered annually
Cost: \$45 registration plus hotel

Dr. Sue White, Ph.D.
Department of Child Psychiatry
Metro Health Medical Center
2500 Metro Health Drive
Cleveland, Ohio 44109-1998
(216) 459-3745

Juvenile Firesetters: Advanced Concepts

Topics: dealing with firesetters six and younger; adolescents; interviewing; interaction with parents.,
Length/Schedule: 14 hours (2 days); offered on request
Cost: contact Dr. White

OKLAHOMA

Oklahoma Chapter IAAI
c/o Mark Keim, Secretary
P.O. Box 974
Stillwater, Oklahoma 74076
(405) 297-3321

Annual Conference

Designed for law enforcement, fire service and insurance personnel
Prerequisite: member of Oklahoma Chapter IAAI

Provides current training in areas of fire/arson investigation as requested on previous year's conference survey. Past/present topics have included: fire scene investigation; advanced fire scene investigation; canine accelerant detection; juvenile firesetter intervention; kinesic interview; automobile fire investigation; fire scene preservation and photography; search and seizure; legal aspects; natural gas and liquid petroleum gas scenes; cause and origin; motives; case preparation; mock trials; explosive recognition and investigation. Tested. Certificate of completion awarded. Provides 20 hours of mandatory continuing education training as accredited by the Council on Law Enforcement Training.

Length/Schedule: 20 hours; held annually, end of October
Cost: \$75/registration; \$5/test fee; meals and lodging average \$60/day

Regional Seminars

Designed for law enforcement, fire service and insurance personnel
Prerequisite: membership in Oklahoma IAAI and/or current firefighters, district attorneys, private investigators and Oklahoma IAAI president-approved attendees

Designed to meet the fire investigation training needs of different parts of the state of Oklahoma. Oklahoma IAAI holds four regional seminars each year covering various topics as requested. Topic examples: fire behavior; determining point of origin; accidental and incendiary fire causes; devices; automobile fire scene investigation; photography; laboratory capabilities;

evidence preservation and handling; prosecution preparation. Each seminar is targeted toward basic or advanced training in the various topics listed. Oklahoma State Fire Service Training, Oklahoma IAAI, and Council on Law Enforcement Education Training certificates awarded.

Length/Schedule: usually 2 days; 4 regional seminars/year are held throughout Oklahoma by requesting agencies
Cost: none

Oklahoma Fire Marshal's Office
4030 Lincoln Boulevard, Suite 100
Oklahoma City, Oklahoma 73105
(405) 424-4371

Fire Marshal's Association of Oklahoma Investigation Seminars

Seminars related to arson investigation are offered on request.

Length/Schedule: contact Oklahoma Fire Marshal's Office
Cost: contact Oklahoma Fire Marshal's Office

Oklahoma State University, Fire Service Training Fire Building
Stillwater, Oklahoma 74078-0114
(405) 744-5727

Fire Cause Determination and Investigation

Designed for law enforcement, fire service and insurance personnel

Designed to help participants develop effective fire investigation techniques. Topics: vehicle fires; explosives: notes and sketching; evidence collection; investigation reports; hands-on investigation; accidental fire causes: tools of the trade: crime scene photography; walk through investigation: wildland fire investigation: investigation report writing: legal aspects and courtroom procedures: psychology of the child firesetter and juvenile firesetter; motives, interviewing and interrogating. Upon successful completion of the course, the participants will be certified by Oklahoma State University, Fire Service Training.

Length/Schedule: 72 hours: offered twice a year; contact Fire Service Training for details
Cost: \$345 for Oklahoma firefighters and municipal government employees; \$498 for all other participants

Fire/Arson Detection I

Designed for law enforcement, fire service and insurance personnel

Introduces fire behavior, but is primarily designed to teach on scene firefighters to recognize burn patterns, indicators of a suspicious fire and evidence. Focuses on determining cause and origin. Topics: fire behavior: point of origin; accidental fires; motives; vehicle fires; wildland fires: legal aspects; incendiary fires. By the end of the course, the student will be able to preserve the fire scene, protect evidence and read burn patterns.

Length/Schedule: 12 hours: offered throughout state on request of local fire departments
Cost: none

Oklahoma State University, OKC
900 North Portland
Oklahoma City, Oklahoma 73107
(405) 945-3236

Fire Investigation

Designed to provide quality education to individuals wishing to improve their skills, knowledge and ability. Coursework can be applied to an Associate Degree in Fire Science, as well as certificates in Fire Investigation and Fire Inspection.

Length/Schedule: one semester: contact Oklahoma State University for details
Cost: 42.75/credit hour

Tulsa Junior College, Metro Campus
909 South Boston
Tulsa, Oklahoma 74119
(918) 587-6561

Fire Investigation and Arson

Prerequisite: Introduction to Fire Protection course or permission of instructor

Topics: the firefighter's role in fire investigations; the method and mechanics of protecting; searching, and controlling the fire scene; determining the point of origin, path of fire travel, and fire causes: interviews and interrogations; recognizing and preserving evidence; Oklahoma arson laws; alibis, motives, providing the corpus delicti, preparation of the case, court testimony, and reports and records: juvenile fire setters. Three credits.

Length/Schedule: one semester; contact Tulsa Junior College for details
Cost: fee/semester hour: \$24.50 for residents; \$77.50 for non-residents

OREGON

Central Oregon Community College
2600 Northwest College Way
Bend, Oregon 97701-5998
(503) 383-7700

Fire Investigation

Provides the student with basic information on fire cause determination. Field trips and classroom props aid the student in understanding the science of fire investigation. Topics: arson detection; protection of the point of origin; fire indicators; motives: vehicle fire investigation. Three credits.

Length/Schedule: contact Central Oregon Community College
Cost: tuition/credit: \$31 (1-11 credits)

Chemeketa Community College
4000 Lancaster Drive North
Salem) Oregon 97309
(503) 399-5163

Fire Investigation

Designed for fire service personnel

Topics: burning characteristics; burn patterns; source of ignition: ignition materials; building construction: photography; sketching; report writing; interviewing; fatal fire investigation: wildland fires: preservation of fire scene and evidence; legal issues. Three credits. No prerequisites.

Length/Schedule: 33 hours; offered a minimum of twice/year during fall and spring academic terms
Cost: \$84 registration

Fire Cause Determination

Designed for fire service personnel

Topics: firefighter's information gathering responsibility at various stages of fire, incident; determining point of origin; determining fire cause: protection of evidence: securing the fire scene. No credit. No prerequisites.

Length/Schedule: 3 hours; offered six times a year
cost: \$15-\$20

Fire Investigation

Designed for fire service personnel

Topics: motives: cause and origin: fatal fires; identification, collection, and preservation of evidence; interviewing; loss determination; attack; salvage and overhaul techniques. No credit. No prerequisites.

Length/Schedule: 12 hours (weekend course); offered six times a year
Cost: \$45 tuition

McMinnville Fire Department
175 East First Street
McMinnville, Oregon 97128
(503) 472-9371

Annual Fire Investigation Seminar

Designed to educate firefighters to recognize the signs of incendiary fires. Topics vary from seminar to seminar. Topic examples: electricity and incendiary fires; incendiary auto fires; basic fire cause investigation; legal aspects of arson. Upon completion of the seminar, the student will be able to determine fire cause and recognize intentionally set fires. Credits are given by the State Training Division, Bureau of Police Standards, and Fire Standards Accreditation. No prerequisites.

Length/Schedule: 2 days (14 hours); held once a year, the second weekend in March
Cost: \$40 tuition: lodging additional

Ochoco National Forest
P.O. Box 490
Prineville, Oregon 97754
(503) 447-9511

Intermediate Wildland Fire Cause Determination

Designed for law enforcement and fire service personnel

Recommended for supervisory initial attack firefighters and land management law enforcement personnel.
Open to all public agency employees.

Topics: origin and cause determination; processing a fire scene; special resources/crime labs; interviewing/statements: report writing; testifying in court: evidence collection techniques; legal issues; types of fire causes. By the end of the course, the student will be able to determine the point of origin of wildland fires and

prepare facts for court presentation, The course is accredited by both the Oregon Board of Police Standards and Training (BPST), and the Oregon Fire Standards and Accreditation Board. Interested candidates will also be eligible for two college credits by paying the appropriate tuition to Central Oregon Community College. No prerequisites.

Length/Schedule: 40 hours; offered annually; next training in May, 1993 at Redmond Regional Training Center, Redmond, Oregon
cost: \$290

Oregon Chapter of the IAAI
c/o Dave Harms, Secretary
55 Southwest Ash Street
Portland, Oregon 97213
(503) 823-3700

Annual Seminar
Spring and Fall Advanced Fire and Arson
Conferences

No further information submitted

Oregon State Fire Marshal Office
4760 Portland Road Northeast
Salem, Oregon 97305-1760
(503) 378-5210

Fire Cause Determination

Designed for law enforcement, fire service, and insurance personnel

Topics: the need to investigate; firefighter/police officer responsibility; motivation of the fire setter: legal aspects; determining the point of origin: fatal fires; accidental fire causes; vehicle fires; incendiary fire causes; preserving evidence. Upon completion of the course, the student will have gained the basic knowledge needed to help assist the investigator's job of determining the fire cause. National Fire Academy and Fire Standards Accreditation Board Certifications awarded.

Length/Schedule: 16 hours: next scheduled in March 1993
Cost: none

Portland Community College
P.O. Box 19000
Portland, Oregon 97280-0990
(503) 244-6111

Fire Investigation

Topics: burning characteristics of combustibles; interpretation of clues and burn patterns leading to point of origin; identification of incendiary indications: sources of ignition and materials ignited; how to preserve the fire scene evidence. Three credits.

Length/Schedule: one quarter; contact Portland Community College for details
Cost: tuition/credit: \$28 in-state: \$88 out-of-state

Southwestern Oregon Community College
1988 Newmark
Coos Bay, Oregon 97420
(503) 888-2525

Fire Investigation

Designed for law enforcement and fire service personnel

Provides students with basic knowledge required to determine a fire's point of origin, identify factors which indicate an incendiary fire, and preserve evidence. Topics: five basic motives for setting a fire; factors which may indicate an incendiary fire; the fire department's responsibility with regard to fatal fires; how to properly identify, collect, remove, and preserve evidence; procedures for conducting preliminary interviews at the fire scene; how to determine loss to structure and contents; attack, salvage, and overhaul techniques which enhance fire investigation. One credit. No prerequisites.

Length/Schedule: 12 lecture hours: offered on contract basis
Cost: decided on contract basis

Umpqua Community College
P.O. Box 967
Roseburg, Oregon 97470
(503) 440-4600

Fire Investigation

Topics: isolating cause of fire and its effect on fire prevention: burning characteristics of combustibles; interpretation of clues; burn patterns leading to points of origin: identification of incendiary indications; sources of ignition and ignited materials: preservation of fire scene and evidence. Three credits; can be applied toward A.A.S. degree in Fire Science. (A.A.S. degree provides the first two years of a four-year degree in Fire Science Administration offered at Western Oregon State or Eastern Oregon State.)

Length/Schedule: offered when specific demand from the industry is determined
Cost: tuition/credit hour: \$28 in-state; \$82 out-of-state

PENNSYLVANIA

Evidence Photographers International Council
600 Main Street
Honesdale, Pennsylvania 18431-0351
(717) 253-5450

Evidence Photography Seminars

Designed for law enforcement and civil evidence photographers

Topics may include accident reconstruction; arson; court photography; documentation of explosions; latent print examination: crime scene photography.

Length/Schedule: 3 day seminars (on average); offered twice yearly - spring and fall
Cost: averages \$225-245/seminar

Harrisburg Area Community College
One HACC Drive
Harrisburg, Pennsylvania 17110-2999
(717) 780-2607

Arson Investigation

Designed for law enforcement, fire service and insurance personnel

Students will become familiar with basic concepts of fire investigation through determining point of origin, cause of fire, identification of motives, and legal aspects of the investigation. Topics: requirements of the fire investigator; physics of fire; origin and cause of fires: incendiary fires; electrical fires; gas fires; explosions; appliance malfunctions; motor vehicle fires: spontaneous ignition: fire causes; forensic photography: evidence; expert witness: reports and court appearances; fire deaths. Three credits. Required as a core course in Fire Science Technology certificate and Associate Degree Programs, Also taken for continuing education by career and volunteer fire service personnel.

Length/Schedule: one semester; offered every spring semester
Cost; tuition varies; contact Harrisburg Area Community College

Holy Family College
Grant and Frankford Avenues
Philadelphia, Pennsylvania 19114-2094
(205) 637-5016

Fire/Arson Investigation

Introduction to what every fire science student should know about fire investigation. Explores fundamental investigative techniques needed to acquire proficiency in the area of fire investigation and integrates them into the student's previously completed fire science studies. Includes topics ranging from determination of the point of origin to motivation of the fire setter; from evidence collection and preservation to interviews and interrogations. Three credits; can be applied toward a B.A. in Fire Science Administration.

Length/Schedule: one semester
Cost: \$175/credit

Luzerne County Community College
1333 South Prospect Street
Nanticoke, Pennsylvania 18634
(717) 735-8300

Fire Investigation and Arson

Prerequisite: Introduction to Fire Protection and Prevention

Stresses the firefighter's role in combatting the arson problem; investigation techniques; reports, case histories, and court preparation: detection, prevention, and preservation of evidence in arson cases; selected discussion of laws, decisions, and opinions other than fire and building codes which affect fire department operations. Three semester hours; offered as part of a program of studies leading to an A.A.S. degree.

Length/Schedule: one semester; contact Luzerne County Community College for details
Cost: tuition/semester hour: \$48-\$96 in-state, depending on area of residency and reciprocity with other community colleges: \$144 out-of-state

Mercyhurst College, North East Campus
Fire Science Department
16 West Division Street
North East, Pennsylvania 16428
(814) 725-6122

Arson Investigation Certificate Program

Designed to provide those in either the public or private sector with the scientific and legal knowledge needed to analyze situations for the possibility of arson. Ten

courses, thirty credits. Courses include: Basic Writing; Municipal Fire Administration; Fundamentals of Fire Prevention; Fire Casualty Insurance: Essentials of Fire Chemistry/Lab; Criminal Investigations; Arson Investigation I; Arson Investigation II; Fire Detection and Control/Lab; Career Planning: Theory and Practice.

Length/Schedule: contact Mercyhurst College for details

Cost: tuition/credit: \$184

Montgomery College
P.O. Box 400
340 DeKalb Pike
Blue Bell, Pennsylvania 19422-0758
(215) 641-6300

Fire Investigation

Topics: causes of fires: arson laws; investigative techniques: recognition and preservation of evidence: interrogation of witnesses; reports; court procedure; testimony and legal opinions. Three credits: can be applied toward A.A.S. degree in Fire Science.

Length/Schedule: one semester; contact Montgomery College for details

Cost: tuition/credit hour: \$60 in-county; \$120 out-of-county; \$180 out-of-state

Northhampton Community College
3835 Green Pond Road
Bethlehem, Pennsylvania 18017-7599
(215) 861-5300

Fire Causes and Detection

Covers history of fire investigation and detection, including inspection techniques; gathering of evidence and development of technical reports; fundamentals of arson investigation; processing of criminal evidence; criminal procedure related to local and state statutes. Three credits; offered as part of an A.A.S. degree program in Emergency Services Technology (firefighting option).

Length/Schedule: one semester; contact Northhampton Community College for details

Cost: tuition/credit hour: \$58 for residents; \$94 in-county; \$120 out-of-county; \$182 out-of-state

Pennsylvania Chapter IAAI
c/o Michael Moonblatt, Secretary
8230 Old York Road
Elkins Park, Pennsylvania 19117
(215) 887-1561

Annual Seminar

No further information submitted.

Pennsylvania State Fire Academy
1150 Riverside Drive
Lewistown, Pennsylvania 17044
(717) 248-1115

Fire Investigation/Arson Detection

Designed for law enforcement and fire service personnel

Prerequisite: letter from mayor, police or fire chief, or other local government officials defining student's duties in this field

Topics: investigator safety; fire behavior and building construction; determining point of origin; motivation of fire setter: accidental causes; incendiary causes: automobile fires; fatal fires; sketching and photography; interviews and interrogations; legal aspects; investigative notes and report writing; demonstrations: practical scene work: case studies. Upon successful completion of the course, the student will be able to determine the basics of cause and origin of a fire, properly document evidence, sketch the fire scene, and be able to testify in court as to pertinent facts. State Fire Academy Certificate of Training awarded.

Length/Schedule: 30 hours (5 days); generally offered once or twice a year

Cost: none; student supplies own travel, meals, lodging,

Fire Arson Detection (National Fire Academy course)

Designed for fire service personnel

A study of six topics dealing with the fire officer's and firefighter's responsibilities for determination of fire cause and fire scene procedures. The course begins with motivation, or why people set fires, and progresses step by step through the prosecution of the crime of arson. By the end of the course, the student will be familiar with identification of probable motives and the relationship between motives and probable suspects: determination of the point of origin: determination of accidental and incendiary fire causes in both structural and vehicle fires; special considerations in fatal fires; necessary considerations in the collection of evidence, and legal problems associated with arson prosecutions. Accredited by State Fire Academy. Pennsylvania State Fire Academy Certificate of Training awarded. No prerequisites.

Length/Schedule: 16 hours; conducted by educational training agencies statewide on an ongoing basis
Cost: depends on the policy of the conducting educational agency; may run \$0-\$50, exclusive of travel, meals, etc.

Westmoreland County Community College
Armbrust Road
Youngwood, Pennsylvania 15697-1895
(412) 925-4000

Arson Investigation I

Designed for law enforcement, fire service and insurance personnel
Prerequisites: Introduction to Fire Science, Legal Aspects of the Pennsylvania Fire Service

Instructs fire, police, insurance and private sector personnel about mushrooming arson and related problems confronting the entire nation today. Provides instruction in arson awareness and recognition to aid in early detection of possible crimes, and in appropriate follow-up investigations. Topics: motivation of the firesetter; determining the point of origin: fire cause (accidental versus incendiary); incendiary devices; building construction and fire investigation; vehicle fires; wildland and fatal fires; photography; fire scene sketching; evidence collection and preservation: forensic laboratory services and laboratory equipment: interviews and interrogations; field notes and report writing: fire scene investigation; presentation and critiques of investigation. Upon completion of the course, the student will be able to conduct legal investigations of fires which may occur in his/her jurisdiction: determine the origin and cause of a given fire; prepare the necessary forms, sketches, and reports to record the facts determined by the investigation; identify common motives, and identify, collect, and preserve evidence. Three credits.

Length/Schedule: one semester; next scheduled in spring semester 1993 and thereafter on a two-year cycle.
Cost: \$39/credit plus a one-time \$10 application fee

RHODE ISLAND

Providence College
School of Continuing Education
River Avenue
Providence, Rhode Island 02918
(401) 861-4474

Arson Investigation

A comprehensive study of arson in terms of motives, laws, investigation, and prosecution. Three credits.

Length/Schedule: one semester; contact Providence College for details
Cost: tuition/credit: \$107

Rhode Island State Fire Marshal Office
1270 Mineral Spring Avenue
North Providence, Rhode Island 02904
(401) 277-2523

Annual Rhode Island State Fire Investigators Seminar

Designed for law enforcement, fire service and insurance personnel
Prerequisite: attendee must be engaged in some way with the investigation of fires

Familiarizes the student with the latest technology available and makes them more aware of the ever-increasing incidence and methods of arson. Topics: basic fire investigation course; evidence collection and documentation; legal aspects of arson investigation; mock trial; fatal fire investigation; court testimony; auto fire investigations; electrical fire causes. By the end of the seminar, the student will be more proficient in establishing the cause and origin of fires and more cognizant of the trend being set throughout the country. A certificate is awarded jointly by the Rhode Island State Fire Marshal's office and the Rhode Island Chapter of the IAAI. Co-sponsored by Rhode Island State Fire Marshal, Rhode Island Chapter IAAI and Rhode Island FAIR Plan.

Length/Schedule: 2-4 days; annual seminar scheduled every spring
Cost: \$50-\$100, depending on the number of days involved

Rhode Island State Fire Marshal's Office investigative staff also delivers lectures to various civic, law enforcement and fire personnel throughout the year.

Explosions and Bombs

Topics include first responders: what to do, what to look for, and evidence and scene preservation until bomb squad arrives. Certificates awarded. Co-sponsored by Bureau of Alcohol, Tobacco and Firearms.

Length/Schedule: 1 day; offered at least once a year
cost: \$15

SOUTH CAROLINA

Carolina Fire Investigators Association
c/o Lt. Doug Ross
P.O. Box 1045
Taylors, South Carolina 29687
(803) 737-3166

Arson Investigation Seminar

No further information submitted.

South Carolina Chapter IAAI
c/o Wilmon L. Hutto, Jr., Secretary
3720 Mineral Springs Road
Lexington, South Carolina 29073
(803) 356-4345

Arson Related Seminars

No further information submitted.

South Carolina Criminal Justice Academy
5400 Broad River Road
Columbia, South Carolina 29221
(803) 737-8400

Advanced Arson Seminar

No further information submitted.

South Carolina Fire Academy
2920 Fire Academy Road
West Columbia, South Carolina 29072
(803) 822-8538

Basic Arson Investigation

Designed for law enforcement and fire service personnel

Prerequisite: recommendation by local fire chief for approval, due to limited number of students admitted; pre-test given

Introduces students to application of investigative techniques. Topics: point of origin; accidental and incendiary fire cause; motivation of fire setter; scene sketching; fatal fires; wildland fires; legal aspects; interviewing and interrogation; evidence collecting and preservation; building construction: RICO statutes; auto fires; field reports. By the end of the course, the student will have gained competence in basic arson investigation technique. Certificate of attendance awarded.

Length/Schedule: 64 hours; contact South Carolina Fire Academy for details

Cost: contact South Carolina Fire Academy

Advanced Arson Investigation

Designed for fire service personnel

Prerequisite: Basic Arson Investigation course

Provides advanced investigation techniques in class as well as live fire scenarios to further professional development for arson investigators. Topics: fire scene origin and cause investigation techniques; forensic science for the investigator: interview and interrogation: polygraph: case information management. South Carolina Fire Academy Certificate awarded.

Length/Schedule: 32 hours: contact south Carolina Fire Academy for details

Cost: \$20 (lodging and meals additional)

Arson Photography Workshop

Prerequisite: basic photography experience and knowledge

Designed to orient student to basics of photography and the arson investigation. Topics: basic photographic concepts: flash: darkroom processing; crime scene and photography; evidence procedures, and court test validity. Certificate of attendance awarded.

Length/Schedule: 12 hours

Cost: \$25 (lodging, meals additional)

SOUTH DAKOTA

Killian Community College
1600 South Menlo Avenue
Sioux Falls, South Dakota 57105
(605) 336.1711; (800) 888-1147

Fire/Arson Detection (National Fire Academy Course)

Prerequisite: Fire Fighter I and Fire Fighter II

Provides fire suppression personnel with basic skills in identifying fire cause and determining if the cause was of an accidental, suspicious, or incendiary nature. Four point five (4.5) credits.

Length/Schedule: one quarter

Cost: \$70/credit hour

South Dakota Chapter IAAI
c/o Helen King, Secretary
P.O. Box 975
Pierre, South Dakota 57501
(605) 773-4311

Arson Investigation Seminar

Designed for law enforcement, fire service, and insurance personnel

Trains law enforcement, fire, and insurance personnel in the detection and prosecution of arson. Presents various topics related to investigation. Certificate awarded upon completion. No prerequisites.

Length/Schedule: 16 hours; next scheduled in October 1993
Cost: \$20 registration fee

South Dakota Fire Marshal Office
118 West Capitol
Pierre, South Dakota 57501-2036
(605) 773-3562

Fire Arson Detection (National Fire Academy course)

National Fire Academy twelve hour class. All basic aspects of arson detection are covered. Certificate of completion awarded. No prerequisites.

Length/Schedule: 12 hours: offered twice a year: contact South Dakota Fire Marshal's office for details
Cost: \$10

Various Investigation Courses

The South Dakota Fire Marshal's Office offers several different investigation courses throughout the year. They are usually taught by out-of-area instructors on a specific subject, i.e., electrical cause and determination, vehicle fires, etc.. These courses are generally offered at the annual state and district fire schools or as special weekend classes.

South Dakota Firefighters Association
P.O. Box 122
Colton, South Dakota 57018
(605) 446-3265

State Fire School

Designed for fire service personnel

Topics include fire investigation, prevention and extinguishment. Certificate awarded upon completion. No prerequisites.

Length/Schedule: 12 hours; held annually in June
Cost: none

TENNESSEE

Chattanooga State Technical Community College
4501 Amnicola Highway
Chattanooga, Tennessee 37406
(615) 697-4401

Fire Causes and Investigation

Topics: analysis of the causes of fires, and relationship of fire characteristics and traces to these causes: recognition of equipment failures responsible for fires: incendiary fires; collection, preservation, and documentation of evidence substantiating fire causes. Three credits.

Length/Schedule: one semester; offered on demand
Cost: fee/semester hour: \$38 in-state; \$145 out-of-state

Memphis State University
Open Learning Fire Service Program
University College
Johnson Hall, G-1
Memphis, Tennessee 38152
(901) 678-2716

Incendiary Fire Analysis and Investigation

Designed for fire service
Prerequisite: must be resident of one of the following states: Tennessee, Mississippi, Arkansas, Alabama, Kentucky, Louisiana, South Carolina: must be admitted to Memphis State University

Designed to strengthen the professional preparation of fire service personnel. Topics include procedures and techniques for the collection, comparison, and analysis of physical evidence related to fire origin; principles of evidence and of ignition; phenomenon and propagation variables; legislative, economic, psychological and sociological variables of the incendiary fire; role of insurance and government programs. Three credits.

Length/Schedule: one semester; contact Memphis State University for details
Cost: \$45 application fee; \$210 course fee

TechniFire Services Company
108 Sunnybrook Trail
Signal Mountain, Tennessee 37377
(615) 886-3643

An organization specializing in the development of training materials as well as organizational develop-

ment (OD). Offers needs analysis, development, and evaluation of training or OD programs for fire investigators. Contact David Hooten for further information.

Tennessee State Fire Marshal Office
500 James Robertson Parkway, 3rd Floor
Nashville, Tennessee 37243
(615) 741-3030

Basic Arson Awareness

Designed for suppression personnel

Provides basic expertise in arson recognition.

Length/Schedule: 4 or 8 hours; offered on request
Cost: none

Introduction to Fire/Arson Investigation

Designed for investigators

Length/Schedule: 16 hours; offered on request
Cost: none

Advanced Fire/Arson Investigation

Designed for full time investigators

Offered in conjunction with the Tennessee Chapter of the IAAI. Thirty two hours credit toward P.O.S.T. certification; 24 hours toward firefighter certification.

Length/Schedule: 40 hours; offered on request
Cost: less than \$30; depends on location and materials

Annual Fire Investigation School

Designed for law enforcement, fire service and insurance personnel

Topics vary. Co-sponsored by the Tennessee Advisory Committee on Arson. Tested. Certificate of training awarded.

Length/Schedule: 40 hours; offered annually in May
Cost: none

Tennessee State Fire School
Murfreesboro Area Vocational Technical School
1303 Old Fort Parkway
Murfreesboro, Tennessee 37129
(615) 898-8010

Fire/Arson Detection (National Fire Academy Course)

Designed for law enforcement, fire service and insurance personnel

Topics: motivation of the firesetter; determining the point of origin; fire causes; fatal fires; vehicle fires; legal aspects. Upon completion of the course, the student will be able to describe fire scene conditions or situations which assist in the identification of the most likely motive for a given fire; apply a set of systematic rules for examining evidence leading to the identification of the most likely point of origin: construct a rationale for labeling a given fire as accidental or incendiary; demonstrate ways in which information about a fire victim helps to determine the cause of death; properly identify the probability of a given vehicle fire as incendiary or accidental; identify fire scene operational procedures as established by recent court rulings. Certificate awarded. No prerequisite.

Length/Schedule: 2 days; offered as requested
Cost: \$12 enrollment fee

TEXAS

A Texas Advisory Council on Arson (ATAC)
800 Brazos Street, Suite 4220
Austin, Texas 78701
(512) 476-7025

ATAC Quarterly Meetings

Designed for fire service and insurance personnel

Topics vary; may include preparing to give testimony; analysis of residues; practical and legal aspects of cooperation between insurance industry and public sector. ATAC also participates in presenting training at the Annual Texas Fire and Arson Investigators Seminar.

Length/Schedule: 1-2 hours: offered quarterly (March, June, September, December) in various sections of the state
Cost: contact ATAC

Amarillo College
P.O. Box 447
Amarillo, Texas 79178
(806) 371-5000

Fire and Arson Investigation

Designed for fire service personnel

A study of the detection of arson; investigation techniques; case histories; gathering and preserving evidence; preparing for a court case: selected discussion of laws, decisions, and opinions; kinds of arsonists; interrogation procedures; cooperation and coordination between fire fighters and arson investigators; other related topics. Three semester hours. Offered as part of a two year program leading to an A.A.S. degree. No prerequisites.

Length/Schedule: one semester; contact Amarillo College for details
Cost: \$58 in-district resident; \$85 out-of-district; \$245 out-of-state

Austin Community College
1212 Rio Grande
Austin, Texas 78707
(512) 495-7178

Fire and arson Investigation I

Designed for law enforcement, fire service and insurance personnel

Gives the student basic information on fire cause determination and provides the first component of a two-course program designed to meet national and state arson investigator certification requirements. The student will learn basic investigatory techniques used to determine how a fire started, and to pinpoint contributing factors that caused fire spread. The subject matter will apply to firefighters/officers as well as police and fire arson investigators. Three credits.

Length/Schedule: one semester
Cost: tuition/semester hour: \$27 in-district; \$41 out-of-district; \$115 out-of-state

Fire and Arson Investigation II

Prerequisite: Fire and Arson Investigation I

Second of a two-part series designed to meet national and state requirements for arson investigators, Topics: specific investigatory techniques used to establish proof of fire cause and/or arson; field trips to fire sites to learn in a hands-on fashion how to properly collect and analyze evidential data; evidence classification, labeling, and security techniques; court preparation and presentation procedures. Will include field trips to court proceedings (when possible), as well as fire sites. With the completion of Fire and Arson Investigation I and II the student will have met all requirements of the State Fire Commission. Three credits.

Length/Schedule: one semester
Cost: tuition/semester hour: \$27 in-district; \$41 out-of-district; \$115 out-of-state

Cisco Junior College
Route 3, Box 3
Cisco, Texas 76437
(817) 442-2567

Fire and Arson Investigation

Topics: detection of arson; investigation techniques; case histories: gathering and preserving evidence; preparing for a court case: laws, decisions, and opinions; kinds of arsonists and interrogation procedures; cooperation between fire fighters and arson investigators. Three semester credits. No prerequisites.

Length/Schedule: one semester; contact Cisco Junior College for details
Cost: fee/semester hour: \$63 in-district; \$67 out-of-district; \$220 out-of-state

Fire and Arson Investigation II

Topics: evidence, including photography, sketching, diagramming, and incident report: interviewing and interrogation; district attorney relationship; grand jury referral and direct filing; grand jury presentation: courtroom demeanor: "expert" witness. Three semester credits.

Length/Schedule: one semester: contact Cisco Junior College for details
Cost: fee/semester hour: \$63 in-district; \$67 out-of-district ; \$220 out-of-state

City of Longview Fire Marshal's Office
P.O. Box 1952
Longview, Texas 75606
(903) 237-1216

Central East Texas Arson Investigators Seminar

Topics vary: examples: fire inquests; juvenile justice system: gang activity and fire; auto theft and fire; mock trial; report writing. Continuing education credits awarded.

Length/Schedule: 3 days; held annually in November
Cost: \$50 registration

College of the Mainland
1200 Amburn Road
Texas City, Texas 77591
(409) 480-6416

Fire and Arson Investigation

A study of the detection of arson, investigation techniques, case histories, gathering and preserving of evidence; preparing for a court case: selected discussion of laws, decisions and opinions; kinds of arsonists; interrogation procedures; cooperation and coordination between fire fighters and arson investigators; other related topics. Three credits; offered as a part of certificate and A.A.S. degree programs in Fire Protection Technology.

Length/Schedule: one semester; offered in the fall
Cost: cost/credit hour: \$62 in-district; \$116 out-of-district; \$214 out-of-state

Fire Investigation II

Topics: evidence, including photography, sketching, diagramming and incident report: interviewing and interrogation; district attorney relationship; grand jury referral and direct filing; grand jury presentation: courtroom demeanor: "expert" witness. Three credits; offered as part of certificate and A.A.S; degree programs in Fire Protection Technology.

Length/Schedule: one semester
Cost: cost/credit hour: \$62 in-district; \$116 out-of-district; \$214 out-of-state

Dallas County Fire Academy
10056 Marsh Lane, B
Dallas, Texas 75229
(214) 904-3010

Basic Arson Investigation

Designed for fire service
Prerequisite: Basic Law Certification

Topics: the arson problem (2 hours); behavior of fire (4 hours); fire investigation terminology (1 hour); building construction, and fire investigation (3 hours); determination of the point of origin (4 hours): accidental fires (6 hours); electrical fires (2 hours); incendiary fires (3 hours); basics of insurance and the investigation (1 hour); motivation of the fire setter (6 hours): photography (2 hours); fire scene sketching (1 hour): fire scene investigation (5 hours): non-residential rural fires (1 hour); wildland fires (2 hours): vehicle fires (3 hours); fatal fires (2 hours): explosives and explosions (3 hours); incendiary devices (3 hours); terroristic groups and terroristic activities (3 hours): legal aspects (12 hours); interviews and interrogations (5 hours); evidence collection, preservation, forensic laboratory services and equipment (3 hours); investigative aids (3 hours); investigative field notes and report writing

(4 hours); electives (2 hours). Upon completion of the course, the student will meet minimum standards requirements for Basic Arson Investigation in the state of Texas.

Length/Schedule: 90 hours: offered annually, usually in March or April
Cost: \$25

El Centro College
Main and Lamar Streets
Dallas, Texas 75202-3604
(214) 746-2037

Fire and Arson Investigation I

Designed for law enforcement, fire service and insurance personnel

Designed to develop knowledge necessary for basic arson investigation, case preparation, and courtroom testimony. Topics: case histories: gathering and preserving of evidence: selected discussions of laws, decisions and opinions; kinds of arsonists. Three semester hours. Applies toward, basic Fire and Arson Investigation Certification for Texas.

Length/Schedule: 45 hours; offered every other year
Cost: none for full paid Texas fire fighters: cost varies for all others

Fire and Arson Investigation II

Designed for law enforcement, fire service, and insurance personnel
Prerequisite: Fire and Arson Investigation I

Continues to develop knowledge necessary for case preparation and courtroom testimony. Topics: evidence, including photography, sketching, diagramming, and incident report; interviewing and interrogation; district attorney relationship; grand jury referrals; direct filing; grand jury presentation; courtroom demeanor; expert witness. Applies toward basic fire and arson investigation certification for Texas. Three semester hours.

Length/Schedule: 45 hours; offered every other year
Cost: none for full time paid Texas fire fighters: cost varies for all others

El Paso Community College
P.O. Box 20500
El Paso, Texas 79998
(915) 594-2000

Fire and Arson Investigation I

Studies the detection of arson, investigation techniques, case histories, and gathering and preserving of evidence. Includes selected discussions of laws, decisions and opinions, as well as kinds of arsonists. Three credits; offered as part of a two year program leading to an A.A.S. degree in Fire Technology.

Length/Schedule: one semester

Cost: resident: \$75 for one credit hour plus \$16 for each additional credit hour: non-resident: \$220 for 1-3 credit hours, plus \$80 for each additional credit hour

Gulf Coast Fire Prevention Seminar
c/o Peter Pavlovsky, Rosenberg Fire Marshal
1017 4th Street
Rosenburg, Texas 77471
(713) 342-6132

Gulf Coast Fire Prevention Seminar

Designed for law enforcement and fire service personnel

One day of this three day seminar is devoted to arson related topics, for example: legal aspects of felony juvenile arson: penal code update: new laws regarding arson investigation. Continuing education units are awarded.

Length/Schedule: three days; held annually in February
cost: \$15

Howard College
1001 Birdwell Lane
Big Spring, Texas 79720
(915) 264-5000

Fire and Arson Investigation

Topics: arson problems; cost of incendiary fires; investigation techniques; law of arson; motives; court evidence; firemen's responsibility in detection reports. Three credits.

Length/Schedule: one semester; contact Howard College for details
Cost: tuition/credit hour: \$16 for resident (minimum \$25); \$200 plus \$16 for non-resident

Kilgore College
1100 Broadway
Kilgore, Texas 75662-3299
(903) 984-8531

Fire and Arson Investigation

A study of the detection of arson; investigation techniques; case histories; gathering and preserving of evidence; preparing for a court case: selected discussion of laws, decisions and opinions; kinds of arsonists; interrogation procedures; cooperation and coordination between fire fighters and arson investigators; other related topics. Three credits.

Length/Schedule: one semester: contact Kilgore College for details
Cost: tuition/semester hour: \$52 in-district: \$64 out-of-district; \$214 out-of-state

Midland College
3600 North Garfield
Midland, Texas 79705
(915) 685-4500

Fire Investigation

The student will gain knowledge in arson problems, the cost of incendiary fires, law of arson, motives, court evidence, and a practical understanding of investigation techniques and firefighter responsibility in detection reports. Three credit hours.

Length/Schedule: one semester; contact Midland College for details
Cost: fee/credit hour: \$72 in-district; \$212, out-of-state

National College of District Attorneys
University of Houston Law Center
Houston, Texas 77204-6380
(713) 747-6232

Criminal Investigators Course

Designed for investigators who are employed by or are associated with a prosecuting attorney's office. Includes at least one and one half hours of arson training. Nineteen estimated continuing education units.

Length/Schedule: 5 days; contact National College of District Attorneys for details
Cost: \$490 (includes admission, course materials, one lunch and coffee breaks)

Career Prosecutor Course

Open to local, state, federal and military prosecutors who have at least one year's experience in prosecution. Contains at least one and one half hours of arson training. Sixty eight estimated continuing legal education units.

Length/Schedule: 2 weeks: contact National College of District Attorneys for details
Cost: tuition approximately \$1000; food and lodging additional

Odessa College
201 West University
Odessa, Texas 79764
(915) 335-6697

Fire and Arson Investigation

Designed for law enforcement and fire service personnel

Introduces kinds of arsonists and detection of arson. Presents investigation techniques, case histories, gathering and preserving of evidence, and preparing for a court case. Includes discussion of selected laws, decisions and opinions. Stresses interrogation procedures, and cooperation and coordination between fire fighters and arson investigators. Other related topics: responsibilities and legal rights of firefighters; arson trends: history of fire investigation: laws relating to fire investigation; fire cause (natural-accidental); determining point of origin, char, heat and smoke patterns; identification, collection and preservation of evidence; fire-setters, motives and methods: cooperative investigating agencies and sources of information; interviewing firefighters: interviewing witnesses and interrogating suspects; mapping, sketching and note taking at the fire scene: arrest and detention procedures; reports and records; courtroom demeanor and testimony; important legal decisions. Three credits. No prerequisites.

Length/Schedule: one semester (48 hours)
Cost: \$58/semester

Tarrant County Junior College
4801 Marine Creek Parkway
Fort Worth, Texas 76179-3399
(817) 232-2900

Fire and Arson Investigation

Topics: detection of arson: investigation techniques: case histories; gathering and preserving of evidence; preparing court cases: selected discussion of laws, decisions, and opinions: kinds of arsonists; interrogation procedures; cooperation and coordination between fire fighters and arson investigators: other related topics. Three credits.

Length/Schedule: one semester: contact Tarrant County Junior College for details

Cost: tuition/semester hour: \$14 in-county (minimum of \$70/semester); \$22 out-of-county; \$120 out-of-state (minimum of \$200)

Techniques of Fire Investigation

Prerequisite: Fire and Arson Investigation

Concentrates specifically on elements of fire cause related to structural and outdoor fires. Physical determination of fire origin regarding fire remains, fire patterns, field tests and analytical procedures used to determine cause in actual field on-site training. Covers elements of background information, interview/interrogation techniques, and intelligence factors. Three credits.

Length/Schedule: one semester; contact Tarrant County Junior College for details
Cost: tuition/semester hour: \$14 in-county (minimum of \$70/semester); \$22 out-of-county; \$120 out-of-state (minimum of \$200)

Fire Investigation Technology Associate in Applied Science Degree

Designed for fire service personnel

First year, first semester courses: Fire Protection Systems; Building Codes and Construction; Inspection Practices; English Composition I; Introduction to Computer Applications. Second semester: Fire and Arson Investigation; Fire Prevention; Introduction to Criminal Justice; Business and Professional Communication; English Composition II; Concepts of Physical Activity: Elective. Second year, first semester: Legal Aspects of Law Enforcement; Fire Safety Education; Fire Administration; Techniques of Fire Investigation; Fire Science Chemistry: Technical Algebra and Trigonometry I. Second semester: Texas State and Local Government; Criminal Investigation; Courts and Criminal Procedure; Hazardous Materials I; Introduction to Psychology; fire elective. Total semester hours: 71.

Length/Schedule: 2 years: contact Tarrant County Junior College, Northwest Campus for details
Cost: tuition/semester hour: \$14 in-county (minimum of \$70/semester); \$22 out-of-county; \$120 out-of-state (minimum of \$200)

Texas Engineering Extension Service
The Texas A&M University System
College Station, Texas 77843-8000
(409) 845-7641

Fire Cause Determination and Arson Recognition Course

Designed for law enforcement and fire service personnel

Designed to provide, on an extension basis, training in the fundamentals of fire cause determination. Includes a summary of arson laws, legal responsibilities and liabilities, evidence preservation, vehicle fires, records and reports, and sources of information and assistance. Upon completion of the course, the student will better understand the legalities when arson is suspected and know the proper procedures to follow during fire investigations. Fire department personnel and fire investigators will know how to keep accurate records which may result in a greater likelihood that arson criminals will be prosecuted and convicted. No prerequisites.

Length/Schedule: 12 hours; taught throughout Texas; contact Texas Engineering Extension Service for details
Cost: none; students are responsible for meals and lodging

Ritualistic Rites and Arson Course

Designed for law enforcement and fire service personnel

Provides training in how to recognize indications of ritualistic rites found at fire scenes. Upon completion of the course, fire department personnel and fire investigators should be more accurate and knowledgeable in recognizing indications of ritualistic rites found at fire scenes. A certificate is awarded at the completion of the course. No prerequisites,

Length/Schedule: 12-16 hours; normally taught on an extension basis and to local fire departments; contact Texas Engineering Extension Service for details
Cost: none; students are responsible for meals and lodging

Advanced Fire Prevention Course

Designed for law enforcement and fire service personnel

Designed to provide training in a variety of fire prevention activities. Includes prevention inspection practices, fire cause detection, arson recognition and public fire prevention education. Upon completion fire department personnel and fire investigators should understand various fire prevention activities and be able to effectively relay this information to other fire personnel and the public. A certificate is awarded at the completion of the course. No prerequisites.

Length/Schedule: 12-15 hours; normally taught on an extension basis and to local fire departments. The course may be adapted to a department's specific needs. Contact Texas Engineering Extension Service for details.

Cost: none; students are responsible for meals and lodging

Fire Cause Detection And Arson Investigation Course

Designed for law enforcement and fire service personnel

Designed to provide training for certification as fire and arson investigators. Upon completion of the course, students will meet the requirements of the Texas Commission on Fire Protection Personnel Standards and Education to be certified as fire/arson investigators. No prerequisites.

Length/Schedule: 90 hours; normally taught on an extension basis and to local fire departments. Contact Texas Engineering Extension Service for details.
Cost: \$100 tuition; students are responsible for meals and lodging

Fire Prevention I through VIII

Designed for law enforcement and fire service personnel

Helps the student obtain a thorough understanding of all facets of fire prevention, protection and investigation. Some of the topics include: analysis of fire loss; state laws; photography, records and reports; public and community relations; building codes; hazardous materials; arson law; arson investigation; gas safety; interpreting laboratory reports; motivation of the firesetter; explosives and explosions; Shriner burn prevention program. Upon successful completion of Fire Prevention VI, Phases I-III, students will have fulfilled requirements for ninety hour Arson Investigation Certification.

Length/Schedule: varies depending on which level is chosen; each level is approximately 30-40 hours; Fire Prevention I - VIII are conducted each summer in College Station during the annual Municipal Texas Firemen's Training School; next scheduled in July 1993
Cost: \$200 tuition for 40 hours; students may purchase a meal card for \$75 which is valid at Texas A&M University dining facilities

Annual Texas Fire and Arson Investigators Seminar

Designed for law enforcement, fire service and insurance personnel

Topics vary; examples: fatal fires; state arson lab procedures; origin and cause; mobile and modular fires: juvenile offenders; legal issues, courtroom procedures; chain of evidence affecting search and seizure. Continuing education credits available through Texas A&M.

Length/Schedule: one week; held annually in March
Cost: \$125 (includes banquet)

UTAH

Utah Chapter IAAI
c/o Dennis Montgomery, Secretary
Ogden City Fire Department
320 26th Street
Ogden, Utah 84401-3108
(801) 629-80704

Annual Seminar

Designed for law enforcement, fire service and insurance personnel

Topics vary, examples: automobile fires: structural fire investigation; investigations and mock trials; evidence gathering; update on new laws. Tested; P.O.S.T. credits awarded.

Length/Schedule: 3 days; offered end of February, different location each year (alternates between northern and southern parts of state)
Cost: \$100 registration for members; \$115 for non-members

Utah State Fire Marshal Office
4501 South 2700 West
Salt Lake City, Utah 84119
(801) 965-4356

Fire/Arson Detection

Offered to cadets and other public safety personnel at the Utah State Police Academy. P.O.S.T. credits awarded.

Length/Schedule: 4 days
Cost: none

Utah Valley Community College
800 West 1200 South
Orem, Utah 84058-5999
(801) 222-8000

Fire Cause Determination

Presents fire cause and origin requirements listed in NFPA 1021 for Officer I certification. Includes determining the cause and origin of a fire, when to call an investigator, rules for preserving evidence, identifying fire setters, testifying in court, and the motives and methods of arsonists. Three semester hours. Can be applied toward Inspector Certificate or two year Fire Science degree.

Length/Schedule: one semester; contact Utah Valley Community College for details
Cost: \$221.75 for residents; \$574 for non-residents

Arson Investigator

Reviews basic fire chemistry and fire cause determination. Explores the principles and methods of fire investigation. Presents fire scene search, laboratory procedures, securing evidence, and criminal investigation procedures. Culminates in a moot court arson trial. Three semester hours. Can be applied toward Inspector certification.

Length/Schedule: one semester; contact Utah Valley Community College for details
Cost: \$221.75 for residents; \$574 for non-residents

Annual Utah Fire School: Fire Arson Investigation

Practical guides will be given to determine fire cause and point of origin, motives of firesetters, fire scene evidence collection, preservation and documentation, legal procedures, etc. Offered by Utah Fire Service Training.

Length/Schedule: 2 days
Cost: \$60 registration

Annual Utah Fire School: Fire Photography

Covers the basics of 35mm photography as well as lighting, metering, photographic evidence gathering, handling and testimony, and the use of camcorders at the fire scene and as a training tool. Offered by Utah Fire Service Training.

Length/Schedule: 1 day
Cost: \$60 registration

Fire Cause Determination

Designed for law enforcement, fire service and insurance personnel

Topics: point of origin, fire causes, fire scene investigation, legal concepts, evidence and preservation. By eliminating possible causes, the student will be able to determine point of origin and probable cause of accidental and incendiary fires. Students will gain sufficient knowledge to recognize arson and preserve the scene. One point six (1.6) continuing education units awarded. No prerequisites. Offered by Utah Fire Service Training.

Length/Schedule: 16 hours: offered annually
cost: \$100

Arson Investigation

Designed for law enforcement, fire service and insurance personnel
Prerequisite: Fire Cause Determination

Topics: accidental and incendiary fire causes; motives of fire setters; fire scene and criminal investigation; paper trails; incendiary devices; evidence collection and chain of custody; vehicle fires; legal procedures. Upon completion of the course, the student will be able to build an arson case using all types of evidence, and take it to court. One point six (1.6) continuing education units awarded.

Length/Schedule: 16 hours; offered annually
cost: \$100

VERMONT

State of Vermont
Fire Service Training Council
P.O. Box 53
Pittsford, Vermont 05763
(802) 483-9407

Fire Investigation for the Firefighter

Designed for fire service personnel
Prerequisite: firefighter certification

Designed to improve firefighters' skills in determining the causes of fires. Topics: behavior of fire; determining point of origin: major and minor accidental fire causes: vehicle fires; legal aspects. Certificate awarded.

Length/Schedule: 12 hours; offered on demand, scheduled with regional schools
Cost: shared between state and fire departments

VIRGINIA

Federal Bureau of Investigation 1
Forensic Science Research and Training Center
FBI Academy
Quantico, Virginia 22135
(703) 640-6131

Police Arson Crime Scene Investigators

Designed for law enforcement
Prerequisite: police or fire department officer

Familiarizes police officer with basic principles of fire investigation and how they relate to arson. Lectures cover basic principles of fire chemistry, burn patterns and sources of ignition. Actual fire scene is utilized to enhance lecture material. Topics include: firesetting motives; physics and chemistry of fires; determining point of origin and cause; electrical fires: building construction; photography; incendiary devices: legal issues; practical problems. By the end of the class, the student will be able to describe classifications of building construction, discuss various aspects of the physics and chemistry of fire, explain the relationship between the source of ignition and point of origin and be familiar with different types of electrical fires. Certificate of completion is awarded.

Length/Schedule: 5 days; one class per year
Cost: none

Department of Fire Programs
Virginia Fire Services Board
2807 Parham Road, Suite 200
Richmond, Virginia 23294
(804) 527-4236

Weekend Basic Fire Cause and Origin

Designed for law enforcement, fire service and insurance personnel

Trains fire fighting, law enforcement and insurance personnel how to recognize an arson fire. Can be taken by experienced personnel to review basic techniques, and to fulfill training requirements for fire investigation recertification. Students apply all the information learned in the classroom on the first day to a practical exercise on the second day. Tested; with a minimum grade of 70% required to pass. Certificate awarded by Virginia Chapter of the IAAI. No prerequisites.

Length/Schedule: 2 days (16 hours); offered throughout Virginia on weekends: eastern shore in the fall, other areas on request

Cost: varies depending on location and expenses

Investigator II/Police Powers

Designed for fire service; participants must have attained Fire Inspector I

Gives students basic training in fire cause and origin and investigation, and prepares them to eventually testify as expert witnesses in a court of law. Legal issues include constitutional law, search warrants, laws of arrest, officer survival, Virginia statutes, and fire cause and origin topics which meet the job performance requirements of NFPA 1033: Standard for Professional Qualifications for Fire Investigator. To obtain certification students must complete the course with a passing grade of 85, as well as perform 40 hours of field training under an instructor-supervisor. Upon successful completion of all requirements, students are issued Investigator II certificates and a letter authorizing jurisdictions to issue police powers should they so desire.

Length/Schedule: 6 weeks: offered annually in the fall at the Virginia State Police Academy, Richmond
Cost: \$20/day (includes room, breakfast and lunch); materials: \$25

Virginia State Police Arson School

Designed for law enforcement, fire service and insurance personnel

Teaches the student both basic and advanced techniques in fire cause and origin investigation. Includes, but is not limited to, civil laws, photography, interviews, cause and origin, criminal laws, forensics, explosives, and a practical scene exercise. Students apply information learned the first three days of the seminar to a practical scene exercise on the fourth day. Presentations of fire scene examination results are given on the final day of the school. Material is tested: students must score a minimum of 70 to pass. Thirty five hours of continuing education credit awarded by the College of William and Mary. A certificate is issued jointly by the Virginia State Police and the Virginia Chapter of the IAAI. No prerequisites. Co-sponsored by the Virginia State Police, the Virginia Chapter of the IAAI, and the Department of Fire Programs.

Length/Schedule: one week; held annually, usually last week of July; Williamsburg
Cost: \$80-\$100

Investigator II

Designed for law enforcement officer or Fire Inspector I

Covers all material referenced in NPPA 1033: Standard for Professional Qualifications for Fire Investigator. The course material is directly related to teaching the student cause and origin techniques. Topics include flammable liquid pour patterns, arson fires, accidental fires, forensics, interview techniques, and basic chemistry of fire. Course material is tested for certification purposes; students must pass with a minimum grade of 85 and complete a 40 hour field training course to prove they can apply material learned in the classroom to the real world. Certification awarded: Investigator II.

Length/Schedule: 2 weeks: offered during the fall at the Virginia State Police Training Academy, Richmond
Cost: \$25 for materials: \$20/day for lodging, breakfast and lunch

IAAI Annual One Week Seminar

Designed for law enforcement, fire service and insurance personnel

Provides basic and advanced information on the newest techniques for fire investigation as well as the necessary recertification training hours for law enforcement and fire personnel. Topics vary and include basic fire cause and origin, study of accidental and arson fires, interviews, forensics, and insurance related matters. Students are expected to gain clear and knowledgeable information about the latest techniques of cause and origin investigation. Credit is given toward recertification as an investigator of the Commonwealth of Virginia. Certificate awarded by the Virginia Chapter of the IAAI. No prerequisites.

Length/Schedule: one week: offered in the spring of each year in either central or northern Virginia, Tidewater
Cost: \$40-\$80

IAAI Fall Fire Cause and Origin Seminar

Designed for law enforcement fire service and insurance personnel

Provides basic and advanced information about the latest fire investigation techniques. Includes, but is not limited to, the newest techniques in fire cause and origin, investigation, forensics, interview techniques, wildland fires, and vehicle fires. A certificate of attendance is issued by the Virginia Chapter of the IAAI. No prerequisites.

Length/Schedule: 2-3 days; held in the fall of the year in either central or northern Virginia, or Tidewater
Cost: varies

Hampton University
College of Continuing Education
Hampton, Virginia 23668
(804) 727-5773

Fire Investigation and Legal Problems

Topics: investigation of fires, stressing arson investigation; techniques of investigation reports; courtroom demeanor. Legal aspects and problems will be emphasized. Three credits: offered as part of a bachelor of science degree in Fire Administration.

Length/Schedule: one semester; contact Hampton University for details
Cost: \$80/credit hour; \$10/registration fee

J. Sargeant Reynolds Community College
1651 East Parham Road
Richmond, Virginia 23294
(804) 371-3301

Fire Investigation Procedures

Introduces the development and philosophy of fire investigation and detection, including inspection techniques, gathering of evidence, and development of a criminal procedure to conform to judicial requirements. Presents an overview of the field of fire investigation and how that activity supports fire prevention. Topics: the role of the fireground investigator; the concept of fire ignition and spread; characteristics of building construction; characteristics of ignition sources: the benefits of the firefighter's observations at the fire; investigating the fire building's exterior and interior; investigating vehicle fires; types of evidence; collecting and preserving evidence: gathering information from records; interviews; preparing the fire investigation report. Upon completion of the course, the student will be able to effectively determine the point of origin, heat source, reason for and category of a fire. Three credits.

Length/Schedule: one semester: contact J. Sargeant Reynolds Community College
Cost: tuition/credit: \$42 in-state; \$142 out-of-state

Northern Virginia Community College
Annandale Campus
8333 Little River Turnpike
Annandale, Virginia 22003
(703) 323-3253

Fire science Investigation specialization (Two years Associate in Applied Science degree)

This curriculum is designed for persons seeking employment or currently employed in the fire service, desiring to specialize in the areas of fire prevention and/or fire investigation. Course objectives include national standards for fire prevention and investigation officers, insurance investigation, and public education on fire safety. Required courses include: English Composition; Introduction to Fire Science; Hazardous, Materials I and II; Fire Service Administration; Fire Prevention Fundamentals; Microcomputers in Public Service Agencies; Introduction to Speech Communication; Criminal Law, Evidence and Procedures; Investigation Procedures I and II; Building Construction and Codes: Urban Fire and Risk Analysis; two math electives; two science electives; two social science electives; one physical education elective; and one general elective. A total of 66 credits are required for the A.A.S. degree.

Length/Schedule: 2 year curriculum; contact Northern Virginia Community College for details
Cost: \$41/credit hour

Fire Science Investigation Certificate

Prerequisite: high school graduate

The certificate curriculum is designed for those students who wish to take principal courses which relate directly to the fire service investigation field. Courses in the certificate program can be applied to the Associate in Applied Science degree. Required courses include: Criminal Law Evidence and Procedures I; English Composition: Introduction to Fire Science; Hazardous Materials I; Fire Service Administration; Investigation Procedures: Building Construction and Codes; Microcomputers in Public Service Agencies; one math elective and one science elective. A total of 36 credits are required for the certificate.

Length/Schedule: 2 semesters; contact Northern Virginia Community College for details
Cost: \$41/credit hour

Fire Investigation Procedures

Introduces the development and philosophy of fire investigation and detection, including inspection techniques, gathering of evidence, and development of a criminal procedure to conform to judicial requirements. Presents an overview of the field of fire investigation and how that activity supports fire prevention. Topics include: role of the fireground investigator: the concept of fire ignition and spread; characteristics of building

construction; characteristics of ignition sources; the benefits of the firefighter's observations at the fire; investigating the fire building's exterior and interior; vehicle fires: types of evidence; collecting and preserving evidence; gathering information from records; interviewing; preparing the fire investigation report. Upon completion of the course, the student will know the elements of the field of fire investigation and will be able to effectively determine the point of origin, heat source, reason for, and category of a fire. Three credits. No prerequisites.

Length/Schedule: one semester; contact Northern Virginia Community College for details
Cost: \$41/credit hour

Criminal Law, Evidence and Procedure I

Provides the student with an introduction to substantive criminal law, its history, philosophy and application. Teaches the elements of proof for major and common law crimes, and the legal classification of offenses. Studies the kinds, degrees, and admissibility of evidence and its presentation in criminal proceedings, with emphasis on legal guidelines for methods and techniques of evidence acquisition. Surveys the procedural requirements from arrest to final disposition in the various American court systems with focus on Virginia jurisdiction. Topics include: definition and sources of criminal law; types of and parties to crime: capacity to commit crime, and defenses; crimes against persons, property and public health; administration of justice: inchoate crimes; kinds and competency of evidence: privileged communications; lay and expert witnesses; impeachment of witnesses; hearsay and its exceptions. Three credits.

Length/Schedule: one semester; contact Northern Virginia Community College for details
Cost: \$41/credit hour

Criminal Law, Evidence and Procedure II

Provides the student with an exposure to the general rules of criminal court procedures including evidence rules concerning circumstantial, documentary, physical and photographic evidence. Topics include: physical and circumstantial evidence; documentary evidence and discovery; photographic evidence; how to testify effectively; the concept of probable cause; search and seizure; confessions and admissions: pre-trial identification procedures; electronic surveillance; criminal trial; arrest procedures. The course prepares the student for the identification of various types of evidence and provides a basic understanding of the rules of criminal procedures so that confessions, searches and seizures, and other law enforcement activities will be performed

in accordance with legal requirements. It also prepares the student to be an effective witness in court. Three credits.

Length/Schedule: one semester; contact Northern Virginia Community College for details
Cost: \$41/credit hour

Thomas Nelson Community College
P.O. Box 9407
Hampton, Virginia 23670
(804) 825-2700

Investigation Procedures

Introduces the development and philosophy of fire investigation and detection, including inspection techniques, gathering of evidence, and development of a criminal procedure to conform to judicial requirements. Three credits. No prerequisites.

Length/Schedule: one semester; contact Thomas Nelson Community College for details
Cost: tuition/credit hour: \$35 in-state; \$142 out-of-state

Tidewater Community College, Portsmouth Campus
State Route 135
Portsmouth, Virginia 23703
(804) 484-2121

Investigation Procedures

Three credits. Offered as part of a program leading to an A.A.S. degree in Protective Services, Fire Science option.

Length/Schedule: one semester; contact Tidewater Community College for details
Cost: tuition/credit: \$43 in-state; \$144 out-of-state

U.S. Postal Inspection Service
Division of Forensic and Technical Services
22433 Randolph Road
Dulles, Virginia 20104-1000
(703) 406-7138

National Bomb Investigations Training Course

Prerequisites: field experience, and prohibitive mailing assignment for postal inspectors: outside agencies by request

Designed to train postal inspectors to properly investigate and collect evidence related to mail bomb cases, leading to possible prosecution. Topics: nature of explosives; forensic photography of bomb scenes;

incendiary devices and mixtures; collection and packaging of bomb scene and fire scene evidence; laboratory capabilities in arson and explosion investigations. Certificate of training awarded.

Length/Schedule: one week; held annually, usually in the fall

Cost: no tuition or registration fees: travel and lodging expenses for non-postal personnel

WASHINGTON

Columbia Basin College
2600 North 20th
Pasco, Washington 99301
(509) 547-0511

Fire Investigation

Designed for professional firefighter, fire service

Includes methods of determining the area of fire origin, fire causes, fire spread and aspects of fire behavior; recognizing accidental and incendiary fires: securing and preserving evidence; witness interrogation methods; arson laws; court procedures; and review of case histories. Three credits; can be applied toward A.A.S. degree in Fire Science.

Length/Schedule: one quarter; contact Columbia Basin College for details

Cost: tuition/credit: \$33.30 resident: \$131.30 non-resident

Edmonds Community College
20000 68 Avenue West
Lynnwood, Washington 98036
(206) 640-1500

Fire Investigation Certificate

The Fire Investigation program is a supplementary program designed to enhance the technical and general education of the career firefighter or investigator. A Certificate of Proficiency in Fire Investigation is available upon completion of a minimum of 48 credits of Core and Program Requirements as outlined below. A minimum of 30 credits or one-third, whichever is less, must have been received from Edmonds Community College and students must maintain a minimum 2.00 cumulative grade point average to meet graduation requirements. Other related Fire Investigation training may be accepted as elective credits, provided that the training course is tested and documented with a course description and outline (minimum of 10 hours of training per course). Submission for approval must be

within one year of said training to be accepted toward the Fire Investigation degree. Modifications may be made upon approval of program coordinator. Core requirements: Intermediate Algebra; College Composition or English 105-BST, Introduction to Sociology. Program requirements: Basic Fire Investigation; Uniform Fire Code and Inspection Process; Investigative Interview Techniques; Advanced Fire Scene Investigation; Crime Scene and Physical Evidence; Juvenile Fire Setter; Arson Fraud Investigation: Introduction to Law and Legal Processes; Criminal Law and Techniques. May be applied toward Associate of Technical Arts degree. Developed by Edmonds Community College, in cooperation with local fire departments and the Washington State Board for Community and Technical Colleges.

Length/Schedule: 1 year

Cost: tuition/credit: \$33 in-state; \$131 out-of-state

Associate of Technical Arts Degree in Fire Investigation

Provides the career firefighter and investigator with the opportunity to acquire an associate degree with a state standardized curriculum, and a system to insure a quality program. Other related fire investigation training may be accepted as elective credits, provided that the training is tested and documented with a course description and outline (minimum of 10 hours of training per course). Submission for approval must be within one year of said training. Core requirements: Introduction to Chemistry; Intermediate Algebra; College Composition; Advanced Composition; Emergency Medical Tech Training and Advanced First Aid/Emergency Care; Physics in Everyday Life; General Psychology; Introduction to Sociology; Fundamentals of Speech: Public Speaking. Program requirements: Basic Fire Investigation: Fire Protection Systems; Uniform Code And Inspection Procedures; Building Construction; Hazardous Materials I; Investigative Interview Techniques; Advanced Fire Scene Investigation: Crime Scene and Physical Evidence; Juvenile Fire Setter; Arson Fraud Investigation; Introduction to Law and Legal Processes: Criminal Law and Techniques. Recommended elective: Basic Photography.

Length/Schedule: two years: courses offered on rotating basis

Cost: \$33.30/credit

National Investigator Training

Ed Stokes
Pierce County Fire Marshal's Office
2401 South 35th Street
Tacoma, Washington 98409-7494
(206) 591-7216

National Investigator Training

Designed for law enforcement, fire service and insurance personnel

Provides continuing education in the area of arson-fraud investigation. Certificate of completion awarded.

Length/Schedule: varies: 24-40 hours; held annually
Cost: varies

National Fire Academy - Train the Trainer

Designed for law enforcement and fire service personnel

Topic: basic arson investigation. Designed to improve first responder arson detection. National Fire Academy Certificate awarded.

Length/Schedule: 32 hours; offered upon request of fire department training officer
Cost: \$15/student

Northwest Fire Investigators Association

W. Mitchell Atkinson

Association Secretary

411 Washington Street

Wenatchee, Washington 98801

(509) 664-5221

Arson Investigation Seminar

Designed for law enforcement, fire service and insurance personnel

Provides continuing education, Topics vary. Certificate of completion awarded; college credit available for designated courses.

Length/Schedule: 40 hours: offered twice a year
Cost: \$110 registration (average)

Olympic College

1600 Chester Avenue

Bremerton, Washington 98310-1699

(206) 478-4504

Basic Fire Investigation

Designed to provide personnel who are responsible for fire and arson investigation with additional knowledge and skills in investigation techniques and procedures. Three credits; can be applied to Associate in Technical Arts degree in Fire Command Administration.

Length/Schedule: contact Olympic College for details
Cost: tuition/credit: \$33.30 for resident; \$131.50 for non-resident

Washington Chapter of the IAAI

c/o Ed Stokes, Secretary

15902 63 Avenue Court East

Puyallup, Washington 98373

(206) 563-4612

Annual Seminar

No further information submitted.

Washington State Fire Protection Services

State Fire Marshal

4317 Sixth Avenue

P.O. Box 48350

Olympia, Washington 98504.8350

(206) 493-2660

Role of the Firefighter in Fire Investigations

Designed for fire service personnel

Trains fire officers and firefighters to follow a common procedure to assist fire investigators in establishing fire scene information. Topics: observations of fire involvement and unusual activity; proper scene preservation; identification of potential witnesses; documentation of observations. Fire Service Training Certificate awarded.

Length/Schedule: 6 hours; available to fire departments upon request

Cost: minimal charge for course materials; available at no cost for jurisdictions participating in Community Arson Action Plan

Basic Fire Investigation

Designed for law enforcement, fire service and insurance personnel

Prepares individuals responsible for conducting fire investigations for origin and cause determination. Topics: behavior of fire; origin and cause; legal aspects: interviewing; report writing; arson-fraud investigation. Fire Service Training Certificate awarded; may be eligible for credits at community college level.

Length/Schedule: 40 hours; offered quarterly
Cost: \$50/student

WEST VIRGINIA

Shepherd College
Shepherdstown, West Virginia 25443
(304) 876-2511

Fire Investigation

An introduction to the methods by which the causes of fires may be determined. Stresses analysis of fire debris to determine origin of the fire, and the collection, preservation and presentation of evidence. Special emphasis will be placed on arson detection. Three credits; offered in conjunction with an A.A.S. degree program in Fire Service and Safety Technology.

Length/Schedule: one semester

Cost: fee/semester hour: \$83 in-state; \$184 out-of-state

West Virginia IAAI
c/o Linda K. Wood, Secretary
P. O. Box 1045
Beckley, West Virginia 75802
(304) 256-2104

Aspects of Fire Investigations

Designed for law enforcement, fire service and insurance personnel

Provides a general, solid basis for a thorough fire investigation, from the fire scene through the trial process. Topics: basic cause and origin; background investigations: motive and opportunity investigation; legal requirements; civil and criminal investigations; law enforcement and civil cooperation: courtroom procedures. Upon completion, the attendee will have a solid understanding of reading the fire scene, and knowledge of requirements for a legal and successful defense. Tested: points can be applied toward earning IAAI CFI status. No prerequisites.

Length/Schedule: 3 days; contact West Virginia Chapter IAAI for details
cost: \$40-\$55

West Virginia State Fire Marshal Office
2100 Washington Street East
Charleston, West Virginia 25305
(304) 558-2191

Fire/Arson Investigation Land II

Gives field fire and police personnel the background necessary to assist the fire investigator, and, if necessary, act as a witness. Various topics including: cause

and origin; evidence collection and preservation; fire scene photography; legal issues; search warrants. Continuing education units offered through University of West Virginia; recertification credit offered for police officers.

Length/Schedule: each course lasts 16 hours; offered on request: also offered in shorter form through the West Virginia Police and Fire Academies
Cost: none

Explosives Recognition for Public Safety Officers

Designed to expand on traditional hazardous materials training, to educate police and fire fighters about various types of explosives they may encounter, and to give information on how to get additional assistance in dealing with explosives. Continuing education units offered through University of West Virginia; recertification credit offered for police officers.

Length/Schedule: 16 hours (weekend); offered on request
Cost: none

WISCONSIN

Blackhawk Technical College
6004 Prairie Road
P. O. Box 5009
Janesville, Wisconsin 53547
(608) 757-7709

Fire/Arson Investigation

Designed for law enforcement and fire service personnel

Studies basic problems and techniques of fire and arson investigation, with emphasis on the application and assistance of various aids to the investigation. Upon completion of the course, the student will be able to work at the scene without compromising it. Three credits; offered as part of an associate degree program.

Length/Schedule: one semester: contact Blackhawk Technical College for details
Cost: tuition/credit: \$41 in-state; \$321 out-of-state

Fire/Arson Detection Course (National Fire Academy)

Designed for law enforcement and fire service personnel

Teaches the basic techniques of determining fire origin and cause, and recognizing primary clues or evidence of arson. It may be used as an introduction for firefighters or as a review for officers. Topics include: fire setter motivation; determining point of origin and probable cause; legal and practical considerations in preserving the fire scene and evidence of arson; the fire officer's role in vehicle or fatal fire investigations. Continuing education units offered.

Length/Schedule: 16 hours; offered on request
Cost: contact Blackhawk Technical College

Bureau of Alcohol, Tobacco and Firearms
517 East Wisconsin Avenue, Room 638
Milwaukee, Wisconsin 53202
(414) 297-3937

Explosives: Post Blast

Designed for full time law enforcement officers

Shows students how to conduct a scene examination after some type of explosion. Covers scene investigation, commercial explosives, improvised explosive devices and team work. By the end of the course, the student will have a basic understanding of how explosives function and the safe investigation of an explosive scene. No prerequisites.

Length/Schedule: 3 days; contact BATE Milwaukee for details
Cost: funded by Wisconsin Department of Justice, Division of Training and Standards

Arson for Profit Investigation

Designed for full time law enforcement officers

Provides investigators with basic knowledge necessary to identify possible arson for profit fires. Topics focus on developing the financial motive and include accounting, link analysis, insurance information, real estate information and trial information. By the end of the course, the student should be able to understand basic investigative techniques used to identify financial crimes. No prerequisites.

Length/Schedule: 4 days; contact BATF, Milwaukee, for details
Cost: funded by Wisconsin Department of Justice, Division of Training and Standards

Fox Valley Technical College
1825 North Bluemound Drive
P.O. Box 2277
Appleton, Wisconsin 54913-2277
(414) 735-5600

Fire Investigation

Covers the fundamentals of fire investigation practices and procedures. The student will be given an understanding of the role of the modern fire investigator and the techniques used to determine the cause and circumstances of various fire situations, including arson. Three credits; offered as part of a two year Fire Protection Technician program.

Length/Schedule: one semester; contact Fox Valley Technical College for details; (also offered at Oshkosh Campus, 414/233-9191, and several regional centers)
Cost: resident: course fees only; non-resident: \$280 plus fees

Gateway Technical College
109 South Spring Street
Burlington, Wisconsin 53105
(414) 763-7661

Fire and Arson Investigation

Designed for fire service and insurance personnel

Introduces the problems and techniques of fire investigation. Emphasis on application and understanding of fire behavior and chemistry of fire in determining the origin and causes of fires. By the end of the course, the student will be able to describe chemistry and behavior of fire; fire travel and fire development under "normal" and under accelerated conditions; Law of Arson; role of the firefighter and the investigator; steps in searching a fire scene and methods of determining the point of origin; typical accidental and intentional fire causes; characteristics of explosions and the differing results of common explosion causing agents; special procedures to be followed in cases of fatalities, multiple injuries, and/or large loss fires; legal method of seizing, securing and processing physical evidence; methods of interviewing and interrogating, and how and when to use the Miranda Warning. Three credits; offered as part of a two year program leading to an A.A.S. degree in Fire Science.

Length/Schedule: one semester; offered annually
Cost: \$123.45

House Burns for Arson Investigators

Designed for fire service and insurance personnel

This course is designed to give arson investigators hands-on training in the investigation of set fires.

Length/Schedule: 5-10 hours: contact Gateway Technical College for details
Cost: none

Gateway Technical College, Racine Campus
1001 South Main Street
Racine, Wisconsin 53403-1582
(414) 656-6900

Fire and Arson Investigation

Introduces the problems and techniques of fire investigation. Emphasizes application and understanding of fire behavior and chemistry of fire in determining the origin and cause of fire. Three credits; can be applied toward an A.A.S. degree in Fire Science.

Length/Schedule: one semester; contact Gateway Technical College, Racine campus, for details
Cost: tuition/credit: \$41 resident; \$321 non-resident

Hughes Institute for Continuing Education
P.O. Box 17968
Milwaukee, Wisconsin 53217-0968
(414) 352-9119* (See Addendum)

Hughes Institute courses are designed to upgrade technical expertise, providing the investigator with technical training in essential concepts of physics, chemistry and electricity, and enhancing the investigator's ability to investigate and analyze through a better understanding of what can and cannot occur.

The Fingerprint of Fire and Arson: A Reconstruction Approach

Designed for law enforcement, fire service and insurance personnel

Topics include: fire basics; "B" fuels; understanding the fire process; required conditions for burning; cause analysis; determining the "fingerprint"/behavior of a fire: solid fuels; burn character of wood/cellulose fibers, of synthetics, and of foam; "fingerprint"/behavior per stage of fire growth; factors which influence fire growth; accidental and incendiary fires; investigation/reconstruction. Zero point one (0.1) Continuing Education units for each hour of the program. No prerequisites.

Length/Schedule: 3 days: available for presentation in-house on request
Cost: varies; contact Hughes Institute

Fire Investigation: Electrical, Vehicle, Explosions

Designed for law enforcement, fire service and insurance personnel; electrical and safety engineers; building and electrical inspectors

Topics include: investigation methods; electrical fire investigation; misconceptions regarding electrical fires; electrical ignition; fire due to overheating connections; factory fires; misuse of properly working appliances; shorting and bypassing protective devices; electrical arson fires: automotive equipment related fires; explosions; mechanical equipment related fires; fire evidence evaluation techniques. Zero point one (0.1) Continuing Education units for each hour of the program. No prerequisites.

Length/Schedule: 3 days; available for presentation in-house on request
Cost: varies; contact Hughes Institute

Electrical Fires for the Non-Electrical Engineer/Investigator

Designed for investigators from various fields

Topics include: fundamental electrical concepts; heating and heat transfer: circuit diagrams; circuit behavior; generation and distribution of electrical power; codes and standards; premises wiring; grounding; utilization equipment; electrical faults - causes and consequences: circuit protection devices; electrical overloads; arcing; tracking and treeing; contacts and connections; electrical system hazards. Zero point one (0.1) continuing education units.

Length/Schedule: available in-house on request
Cost: varies: contact Hughes Institute

Madison Area Technical College
3550 Anderson Street
Madison, Wisconsin 53704
(608) 246-6911

Fire Hazards and Causes

Designed for law enforcement, fire service and insurance personnel

This course, in conjunction with Fire Arson Investigation (see below), covers all aspects of fire cause determination. Upon completion of both courses, students will have the knowledge necessary to determine the cause and origin of fires. Three credits. No prerequisites.

Length/Schedule: one semester; offered first semester each year

Cost: approximately \$80 plus text and lodging

Fire/Arson Investigation

Designed for law enforcement, fire service, and insurance personnel

This course, in conjunction with Fire Hazards and Causes, (see above), covers all aspects of fire cause determination. Upon completion of both courses, students will have the knowledge necessary to determine the cause and origin of fires. Three credits. No prerequisites.

Length/Schedule: one semester

Cost: approximately \$80 plus text and lodging

Fire Arson Detection (National Fire Academy course)

Designed for law enforcement, fire service and insurance personnel

Details the basic techniques of determining fire origin and cause, and recognizing primary clues or evidence of arson. May be used as an introduction for firefighters or as a review for officers. The course meets selected objectives of NPQS 1021, Fire Officer Professional Qualifications Standard, Level 1. Topics include: fire-setter motivation; determining the point of fire origin and probable cause; legal and practical considerations in preserving the fire scene and evidence of arson, and the fire officer's role in vehicle or fatal fire investigations. Point three zero (.30) credits. No prerequisites.

Length/Schedule: 12 hours; offered annually or upon demand

Cost: approximately \$20 plus lodging

Milwaukee Area Technical College, North Campus
55 West Highland Road
Mequon, Wisconsin 53092
(414) 242-6500

Fire Investigation

Prerequisites: Fire Protection Organization; Fire Fighting Tactics and Strategy II; Building Construction and Fire Ordinances

Discusses fire detection problems and methods of determining causes. Covers arson investigation, including the involvement of all records and criminal codes. Three credits; offered as part of a program leading to an A.A.S. degree in Fire Science.

Length/Schedule: one semester; contact Milwaukee Area Technical College for details

Cost: tuition/credit: \$45-\$50 resident; \$280 non-resident

Moraine Park Technical College
235 North National Avenue
P.O. Box 1940
Fond du Lac, Wisconsin 54936-1940.
(414) 929-2116

Fire/Arson Detection (National Fire Academy)

Teaches the basic techniques of determining fire origin and cause, and recognizing primary clues or evidence of arson. It may be used as an introduction for firefighters or as a review for officers. Topics include: fire setter motivation; determining point of origin and probable cause; legal and practical considerations in preserving the fire scene and evidence of arson; the fire officer's role in vehicle or fatal fire investigations. Point three zero (.30) credits awarded.

Length/Schedule: 4 weeks (3 hours/week); contact Moraine Park Technical College for details

Cost: \$15.80

Fire Investigation

Topics: fire scene safety and hazards for fire investigators; chemistry of fire: nature and behavior of fire; sources of ignition; determining area of origin; accidental and incendiary fire causes; role of fire investigators and, law enforcement in fire/arson investigations; collecting and handling arson evidence; legal aspects of fire/arson investigations; report writing. Point five five (.55) credit awarded.

Length/Schedule; 7 weeks (3 hours/week); contact Moraine Park Technical College for details

Cost: \$26

Northeast Wisconsin Technical College
2740 West Mason Street
P.O. Box 19042
Green Bay, Wisconsin 54307-9042
(414) 498-5400

Basic and Advanced Fire Investigation

Designed for law enforcement, fire service and insurance personnel

Provides beginning and experienced investigators with proficiency and ongoing training consistent with their needs. Serves as preparation for the Wisconsin IAAI certified fire investigator examination. Continuing education units awarded consistent with course length.

Length/Schedule: varies: offered throughout the year:
contact Northeast Wisconsin Technical College for
details

Cost: tuition/credit: \$41 resident; \$362 non-resident

**State of Wisconsin, Department of Justice
Division of Criminal Investigation
123 West Washington Avenue
P.O. Box 7857
Madison, Wisconsin 53707-7857
(608) 266-1671**

Arson for Law enforcement Officers

Designed for full time law enforcement officers in state
of Wisconsin (limited to 30)

Topics include: legal aspects; behavior of fire: building
construction; determining point of origin; accidental
fires; incendiary fires; explosive investigations; auto and
mobile home fires; motives: fatal fires; interviews;
preparing for trial; crime lab processing and evidence:
practical exercises, Tested; certificate awarded.

Length/schedule: one week; offered annually: contact
Division of Criminal Investigation (DCI) for details
Cost: contact DCI

Division of Criminal Investigation agents also provide
instruction to local police departments or fire depart-
ments on basic or advanced arson investigation upon
request. These sessions may be anywhere from an hour
to 1-2 days in length and are tailored to the specific
needs of the requesting agency. DCI agents provide 12
hours of instruction in basic arson investigation at the
Wisconsin Annual Arson Seminar (see below).

**Waukesha County Technical College
800 Main Street
Peawaukee, Wisconsin 53072
(414) 691-5417**

Fire/Arson Detection (National Fire Academy Course)

Designed for fire service personnel

Details the basic techniques of determining fire origin
and cause, and recognizing primary clue or evidence of
arson. May be used as an introduction for firefighters or
as a review for officers. The course meets selected objec-
tives of NPQS 1021, Fire Officer Professional Qualifica-
tions Standard, Level 1. Topics include: firesetter moti-
vation; determining the point of fire origin and probable
cause; legal and practical considerations in preserving
the fire scene and evidence of arson; the fire officer's
role in vehicle or fatal fire investigations. National Fire
Academy certificate awarded, No prerequisites.

Length/Schedule: 16 hours; contact Waukesha County
Technical College for details

Cost: \$19.90

**Wisconsin Board of Vocational, Technical and Adult
Education
310 Price Place
P.O. Box 7874
Madison, Wisconsin 53707
(608) 266-7289**

Fire Arson Detection (National Fire Academy course)

Designed for fire service and insurance personnel
Prerequisites: Conducting Basic Fire Inspections
Building Construction; Hazardous Materials - Incident
Analysis; DICHHR Codes

Details the basic techniques of determining fire origin
and cause, and recognizing primary clues or evidence of
arson. May be used as an introduction for firefighters or
as a review for officers. The course meets selected
objectives of NPQS 1021, Fire Officer Professional
Qualifications Standard, Level 1. Topics include: fire-
setter motivation: determining the point of fire origin
and probable cause; legal and practical considerations in
preserving the fire scene and evidence of arson; the fire
officer's role in vehicle or fatal fire, investigations
National Fire Academy certificate awarded. No pre
requisites. Can be applied toward certification as state
of Wisconsin Fire Inspector I. This training also offered
through Indianhead Technical College, 505 Pine Ridge
Drive, HCR 69 Box 10B, Shell Lake, WI 54871.

Length/Schedule: traditionally run once annually also
available throughout the year

Cost: all costs for training reimbursed by Department of
Industry, Labor and Human Relations

**Wisconsin Chapter IAAI
c/o Oscar E. Beilke, Secretary/Treasurer
P.O. Box 172
New Holstein, Wisconsin 53061**

Wisconsin IAAI Annual Arson Seminar

Designed for law enforcement, fire service and
insurance personnel

Develops knowledge, proficiency and team work
between individuals and agencies involved in fire
investigation, arson detection, and arson investigation.
Seminar topics change from year to year. The student
will be exposed to new theories and developments in
methods of fire investigation that will result in increased
knowledge and proficiency. Tested. No credit. No
prerequisites. Co-sponsored by Wisconsin Division of

Criminal Investigation, Wisconsin Law Enforcement Officers Association and the Wisconsin Arson Insurance Council.

Length/Schedule: 3 days; offered annually in June
Cost: registration: \$75 for members, \$80 for non-members; (includes some meals); lodging and other meals additional

Wisconsin IAAI Fall Arson Seminar

Designed for law enforcement, fire service and insurance personnel

The seminar presents one major technological topic on fire investigation, offered by a nationally recognized expert. No prerequisites.

Length/Schedule: 8 hours: offered annually; next scheduled in November 1993
Cost: \$35 registration; meals additional

WYOMING

Casper College
125 College Drive
Casper, Wyoming 82601
(307) 268-2110

Causes and Investigations

An in-depth study of the causes and investigation of fires of all types and descriptions, from the fire science point of view. Three credits; can be applied toward certificate or A.A.S. degree in Fire Science Technology

Length/Schedule: one semester; contact Casper College for details
Cost: tuition/semester hour: \$32 in-state; \$80 out-of-state

Laramie County Community College
1400 East College Drive
Cheyenne, Wyoming 82007-3299
(307) 778-5222

Fire Causes and Investigations

A study of causes of fire and investigation of fires of all types. Three credits. No prerequisites.

Length/Schedule: one semester; contact Laramie County Community College for details
Cost: tuition/credit hour: \$34 in-state (1-1 1 credit hours); \$34 out-of-state (1-6 credit hours)

Wyoming Fire Academy
2500 Academy Court
Riverton, Wyoming 82501
(307) 857-6820

Fire/Arson Detection (National Fire Academy Course) **Wildland Fire Investigation**

Auto Fires

Designed for fire service personnel. No further information submitted.

Length/Schedule: contact Wyoming Fire Academy
Cost: contact Wyoming Fire Academy

Wyoming State Fire Marshal Office
Herschler Building, 1st Floor West
Cheyenne, Wyoming 82002
(307)777-6126

Fire/Arson Detection (National Fire Academy Course)

Designed to generate interest and knowledge in field. National Fire Academy certificate awarded. No prerequisite.

Length/Schedule: 2 days: offered a minimum of 4 times per year throughout state
Cost: none

Arson Investigation, Fall Seminar

Designed for law enforcement, fire service and insurance personnel and prosecutors

Designed to enhance education of investigators. Topics: fire scene; search and seizure; high temperature accelerants; presenting courtroom testimony; wildfire. P.O.S.T. certified for law enforcement officers: counts toward state certification. No prerequisites.

Length/Schedule: 5 days; offered once a year in the fall through Wyoming Chapter IAAI
Cost: varies, anywhere from \$30-\$150

Arson Investigation, Spring Seminar

Designed for law enforcement, fire service, insurance personnel and prosecutors

Designed to enhance education of investigators. Topics: similar to fall seminar. Certificate awarded: can be applied toward state and IAAI certification. No prerequisites.

Length/Schedule: 2 days; offered annually in Thermopoulos, WY
Cost: approximately \$25-\$30

Addendum

The Hughes Institute, formerly of Milwaukee, Wisconsin, has relocated. The new address is:

Hughes Institute for Continuing Education

P.O. Box 30430

Mesa, Arizona 85275-0430

(602) 924-1758

Part 2 Topical Index of Fire/Arson Investigation Training Opportunities

Topic areas are listed alphabetically. Within topic areas, courses are listed alphabetically by state and within states alphabetically by organization or school.

Accelerant Detection

Arson Accelerant Detection

California Criminalistics Institute
4949 Broadway
Sacramento, California 95820

K-9 Accelerant Detection

New York State, Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

Advanced Fire/Arson Investigation (courses)

Fire Investigation: Arson III

Fire Investigation: Arson IV

Advanced Fire Investigation: Arson

Pima Community College
200 North Stone Avenue
P.O. Box 3010
Tucson, Arizona 85702-3010

Advanced Officer - AIU (Arson Investigation Unit)

Arson Investigation IV (Fire Investigation 2)

California Department of Forestry Academy
4501 Highway 104
Ione, California 95640

Arson/Explosive Investigation 1B

California State Fire Marshal Office
Arson/Bomb Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823

Investigation 2B: Field Case Studies

California State Fire Marshal Office
Training Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823

Arson Investigation Advanced

Columbia College
Yosemite Community College District
P.O. Box 1849
Columbia, California 95310-1849

Fire Investigation 2B: Field Case Studies

Crafton Hills College
11711 Sand Canyon Road
Yucaipa, California 92399-1799

Advanced Arson Investigation

Red Rocks Community College
Fire Science Department
13300 West 6th Avenue
Lakewood, Colorado 80401-5398

Advanced Arson

Georgia Fire Academy
1000 Indian Springs Drive
Forsyth, Georgia 31029-9599

Advanced Investigation

Barker and Herbert Analytical Labs, Inc.
207 Maine Street
New Haven, Indiana 46774

Arson #2 Advanced Course

Kentucky Tech, Region 5
Adult and Technical Education
505 University Drive
Elizabethtown, Kentucky 42701

Advanced Fire/Arson Investigation

Lansing Community College
400-600 North Washington Square
P.O. Box 40010
Lansing, Michigan 48901-7210

Advanced Fire Investigation School

Michigan State Police, Fire Marshal Division
7150 Harris Drive
Lansing, Michigan 489 13

Annual Conference

Professional Fire And Fraud Investigators Association
4120 West 2nd
Battlefield, Missouri 65619

Advanced Arson Investigation Course

New Jersey Chapter IAAI

c/o Edward Soper, Education Chair
1027 Highway 33 East
Freehold, New Jersey 07728

(Advanced Courses, cont.)

Advanced Arson Investigation

Empire State College
SUNY Center for Distance Learning
2 Union Avenue
Saratoga Springs, New York 12866

Advanced Arson Investigation

South Carolina Fire Academy
2920 Fire Academy Road
West Columbia, South Carolina 29072

Advanced Fire/Arson Investigation

Tennessee State Fire Marshal Office
500 James Robertson Parkway, 3rd Floor
Nashville, Tennessee 37243

Advanced Fire Prevention Course

Texas Engineering Extension Service
The Texas A&M University System
College Station, Texas 77843-8000

Basic and Advanced Fire Investigation

Northwest Wisconsin Technical College
2740 West Mason Street
P.O. Box 19042
Green Bay, Wisconsin 54307-9042

Advanced Fire/Arson Investigation (seminars)

Advanced Arson Seminar

Arizona Chapter IAAI
c/o Eric Cooper
Pima County Sheriff's Department, Arson Detail
1750 East Benson Highway
Tucson, Arizona 857 14

Advanced Fire Investigation

California Conference of Arson Investigators
1122 East Lincoln Avenue, Suite 202
Grange, California 92665

Advanced Arson Investigation Seminar

Denver Fire Department
Fire Investigation Bureau
745 West Colfax Avenue
Denver, Colorado 80204

Advanced Fire Investigation Seminar

Kansas Chapter IAAI
c/o W.L. Wells, Training Chairman
625 North Nettleton Avenue
Bonner Springs, Kansas 66012

Advanced Fire/Arson Seminar

New Mexico Chapter IAAI
c/o David Gatley
900 Alcalde Southwest
Albuquerque, New Mexico 87 103

Advanced Investigative Approaches

North Carolina Chapter IAAI
c/o Nancy H. Johnson, Secretary
14039 Woody Point Road
Charlotte, North Carolina 28278

Advanced Arson Seminar

South Carolina Criminal Justice Academy
5400 Broad River Road
Columbia, South Carolina 29221

Arson Awareness

Arson Awareness

C.S. Mott Community College
1401 East Court Street
Flint, Michigan 48503

Arson Awareness

Delta College
University Center
Michigan 487 10

Arson Awareness

Morris County Firefighters and Police Training
Academy
P.O. Box 900
Morristown, New Jersey 07963-0900

Fire Behavior and Arson Awareness

New York Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

Fire Behavior and Arson Awareness

Suffolk County Arson Task Force
P.O. Box 127
Yaphank, New York 11980-0127

Arson Fraud, Arson for Profit, Insurance Issues

Practical Fire Investigation (Spring)

Practical Fire Investigation (Fall)

Colorado Advisory Committee on Arson Prevention
6565 South Dayton Street, Suite 2400
Englewood, Colorado 80111

(Arson Fraud, cont.)

Annual Seminar

Connecticut FAIR Plan
P.O. Box 280200
East Hartford, Connecticut 06128-0978

Advanced Arson for Profit Investigative Techniques Training Program (AAPITTP)

Department of the Treasury, Bureau of Alcohol,
Tobacco and Firearms
Federal Law Enforcement Training Center
Glynco, Georgia 31524

Arson for Profit

National Insurance Crime Bureau
c/o Dick Baldwin
10330 South Roberts Road
Palos Hills, Illinois 60465

Annual Property Loss Managers Conference

Property Loss Research Bureau
1501 Woodfield Road
Suite 400 West
Schaumburg, Illinois 61701-4980

Fire/Fraud Investigation Seminars

Indiana Arson and Crime Association
c/o Mike Thomas
State Farm Insurance
6103 East 86th Street
Indianapolis, Indiana 46250

Fire Investigation Workshop

National Association of Mutual Insurance Companies
(NAMIC)
4833 Trump Drive
Indianapolis, Indiana 46268

Annual Insurance Anti-Fraud Seminar

New Jersey Special Investigators Association
P.O. Box 2523
Trenton, New Jersey 08611

National Arson Investigation Training Seminar

Insurance Committee for Arson Control
110 William Street
New York, New York 10038

Advanced Insurance Fraud Seminar

National Society of Professional Insurance
Investigators
P.O. Box 85
Centerburg, Ohio 43011

Criminal Investigators Course

National College of District Attorneys
University of Houston Law Center
Houston, Texas 77204-6380

National Investigator Training

National Investigator Training
c/o Ed Stokes
Pierce County Fire Marshal Office
2401 south 35th street
Tacoma, Washington 98409-7494

Arson for Profit Investigation

Bureau of Alcohol, Tobacco and Firearms
517 East Wisconsin Avenue, Room 638
Milwaukee, Wisconsin 53202

Arson Information Management

Arson Intelligence

Kansas City Community College
Engineering Technology Division
7250 State Avenue
Kansas City, Kansas 66 112

Arson Reporting Module

National Fire Information Council
P.O. Box 23221
Lansing, Michigan 48909

Arson Investigation for Law Enforcement

Police Arson Crime Scene Investigators

Department of the Treasury, Bureau of Alcohol,
Tobacco and Firearms
Federal Law Enforcement Training Center
Glynco, Georgia 31524

Law Enforcement for the Arson Investigator Course

Kansas Chapter IAAI
W.L. Wells, Training Chairman
625 North Nettleton Avenue
Bonner Springs, Kansas 66012

Police Arson Crime Scene Investigators

Federal Bureau of Investigation
Forensic Science Research and Training Center
FBI Academy
Quantico, Virginia 22135

(Investigation for Law: Enforcement, cont.)

**Investigator II/Police Powers
Virginia State Police Arson School**

Department of Fire Programs
Virginia Fire Services Board
2807 Parham Road, Suite 200
Richmond, Virginia 23294

Arson for Law Enforcement Officers
State of Wisconsin, Department of Justice
Division of Criminal Investigation
123 West Washington Avenue
P.O. Box 7857
Madison, Wisconsin 53707-7857

Arson for Prosecutors

Arson for Prosecutors
Department of the Treasury, Bureau of Alcohol,
Tobacco and Firearms
Federal Law Enforcement Training Center
Glynco, Georgia 31524

Prosecutor's Arson Seminar
Marion County Prosecutor's Office and the Indiana
Chapter IAAI
c/o Peter Beering
Indianapolis Department of Public Safety
200 East Washington Street, Suite 190
Indianapolis, Indiana 46204-3327

Prosecutor's Arson Investigation Training
Michigan Arson Prevention Committee
200 Buhl Building
Detroit, Michigan 48826

Arson Seminar for Ohio Prosecutors and Judges
Department of Commerce
Division of State Fire Marshal
8895 East Main Street
Reynoldsburg, Ohio 43068

Career Prosecutor Course
National College of District Attorneys
University of Houston Law Center
Houston, Texas 77204-6380

Arson Unit Management

Arson Unit Management
New York Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

B.S. In Arson Investigation

Bachelor of Science in Arson Investigation
University of New Haven
300 Grange Avenue
West Haven, Connecticut 06516

Bachelor of Science in Fire and Arson Investigation
Eastern Kentucky University
253 Stratton - 3131
Richmond, Kentucky 40475

**B.S. in Fire and Safety Engineering Technology,
Fire Investigation Concentration**
University of Cincinnati
Open Learning Fire Service Program
220 Victory Parkway, ML #103
Cincinnati, Ohio 45206

Basic Fire/Arson Investigation Courses

Fire and Arson Investigation
Alabama Arson Prevention Task Force
135 South Union Street, Room 140
Montgomery, Alabama 36130-3401

Fire/Arson Detection
Alabama Fire College
2015 McFarland Boulevard, East
Tuscaloosa, Alabama 35405

Basic Arson Awareness
Alabama State Fire Marshal Office
Department of Insurance
135 South Union Street, Room 140
Montgomery, Alabama 36130-3401

Arson Investigation
Snead State Junior College
P.O. Drawer D
Boaz, Alabama 35957

Arson Investigation
Wallace Community College, Selma
P.O. Drawer 1049
3000 Range Line Road
Selma, Alabama 36702-1049

Arson Investigation
Wallace State College, Hanceville
Hanceville, Alabama 35077-9080

(Basic Investigation Courses, cont)

Fire/Arson Detection

Arizona State Fire Marshal Office
Department of Building and Fire Safety
1540 West Van Buren
Phoenix, Arizona 85007-2414

Fire Investigation

Cochise College
901 North Colombo
Sierra Vista, Arizona 85655

Fire Investigation: Origin and Recognition of Arson

Pima Community College
200 North Stone Avenue
P.O. Box 3010
Tucson, Arizona 85702-3010

Introduction to Fire/Arson Investigation

Arkansas Fire Marshals Office
P.O. Box 5901
Little Rock, Arkansas 72215

Fire Investigation 1A

Allan Hancock College
800 South College Drive
Santa Maria, California 93454

**Fire Investigation 1A: Fire Cause and Origin
Determination**

Antelope Valley College
3041 West Avenue K
Lancaster, California 93536-5426

Fundamentals of Fire Investigation

Barstow Community College
2700 Barstow Road
Barstow, California 92311

Arson Investigation I (Fire Investigation 1A)

California Department of Forestry Academy
4501 Highway 104
Ione, California 95640

Arson/Explosive Investigation 1A

California State Fire Marshal Office
Arson/Bomb Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823

**Investigation 1A: Fire Cause and Origin Determination
Fire and Arson Detection**

California State Fire Marshal Office
Training Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823

Fire Investigation 1A

College of Marin
Indian Valley Campus
Novato, California 94947

Fire Investigation

College of the Desert
43-500 Monterey Avenue
Palm Desert, California 92260

Fire Investigation 1A

College of the Sequoias
915 South Mooney Boulevard
Visalia, California 93277

Fire Investigation I

College of the Siskiyous
800 College Avenue
Weed, California 96094-2899

**Fire Investigation 1A: Fire Cause and Origin
Determination**

Fire and Arson Detection
Crafton Hills College
11711 Sand Canyon Road
Yucaipa, California 92399-1799

Arson and Detection and Control

El Camino College
16007 Crenshaw Boulevard
Torrence, California 90506

**Fire Investigation 1A: Fire Cause and Origin
Determination**

Hartnell College
156 Homestead Avenue
Salinas, California 93901

Fire Investigation

Pasadena City College
Department of Engineering and Technology
1570 East Colorado Boulevard
Pasadena, California 91106-2003

Fire Investigation I

Rancho Santiago College
Fire Technology Department
1530 West 17th Street
Santa Ana, California 92706

(Basic Investigation Courses, cont.)

Fire Investigation I

Riverside Community College
4800 Magnolia Avenue
Riverside, California 92506-1299

Fire Investigation 1A

San Diego Miramar College
10440 Black Mountain Road
San Diego, California 92126

Fire Investigation

San Joaquin Delta College
Public Safety Division
5151 Pacific Avenue
Stockton, California 95207

Fire Investigation 1A

Shasta College
P.O. Box 496006
Redding, California 96049-6006

Fire and Arson Detection

Fire Investigation 1A: Fire Cause, Origin and Determination

Overhaul, Property Conservation, and Fire Investigation

Sierra College
5000 Rocklin Road
Rocklin, California 95677

Fire Investigation 1A

Solano Community College
4000 Suisun Valley Road
Suisun, California 94585

Fire Investigation I

Yosemite Community College District
2201 Blue Gum Avenue
Modesto, California 95352

Fire/Arson Detection

Colorado Division of Fire Safety
700 Kipling Street, Suite 1200
Denver, Colorado 80215

Fire/Arson Investigation

Red Rocks Community College
Fire Science Department
13300 West 6th Avenue
Lakewood, Colorado 80401-5398

Annual Fire School: Arson Investigation.

Connecticut Commission on Fire Prevention and Control
294 Colony Street
Meridan, Connecticut 06450

Arson Investigation

Delaware State Fire Marshal Office
R.D. 2, Box 166 A
Dover, Delaware 19901

Arson Detection and Investigation

Okaloosa - Walton Community College
100 College Boulevard
Niceville, Florida 32578-1294

Basic Arson

Fire/Arson Detection

Georgia Fire Academy
1000 Indian Springs Drive
Forsyth, Georgia 31029-9599

Fire Investigation

College of Dupage
22nd and Lambert
Glen Ellyn, Illinois 60137

Fire and Arson Investigation I

Fire and Arson Investigation II

Lewis and Clark Community College
5800 Godfrey Road
Godfrey, Illinois 62035-2466

Arson Investigation

Prairie State College
202 South Halsted Street
Chicago Heights, Illinois 60411

Arson Investigation

South Suburban College
15800 South State Street
South Holland, Illinois 60473

Fire/Arson Investigation: Module I, II, III

University of Illinois
Fire Service Institute
11 Gerty Drive
Champaign, Illinois 61820

Fire Investigation

Waubensee Community College
Illinois Route 47 at Harter Road
Sugar Grove, Illinois 60554-0901

(Basic Investigation Courses, cont.)

Twelve Hour Arson Investigation Course

Indiana State Fire Marshal Office
Indiana Government Center South
402 West Washington, E241
Indianapolis, Indiana 46204

Fire and Arson Investigation I

Dodge City Community College
2501 North 14th
Dodge City, Kansas 67801

Basic Fire Investigation

Fire/Arson Detection

Introduction to Fire Cause Determination

University of Kansas
Fire Service Training
Continuing Education Building
Lawrence, Kansas 66045-2624

Arson #1

Kentucky Tech, Region 5
Adult and Technical Education
505 University Drive
Elizabethtown, Kentucky 42701

Fire/Arson Detection

Louisiana State University
Firemen Training Program
Division of Continuing Education
6868 Nicholson Drive
Baton Rouge, Louisiana 70820

Fire Investigation

Maine Fire Training and Education
Southern Maine Vocational Technical Institute
Fort Road
South Portland, Maine 04106

Fire/Arson Detection

Penobscot Valley Fire Attack School
Orono Firefighters
P.O. Box 143
Orono, Maine 04773

Fire and Arson Investigation

Montgomery College
51 Mannakee Street
Rockville, Maryland 20850

Fire/Arson Investigation

National Fire Academy
16825 South Seton Avenue
Emmitsburg, Maryland 21727

Fire/Arson Detection Training Package

National Fire Academy Fire Service Training Package
National Audiovisual Center
8700 Edgeworth Drive
Capitol Heights, Maryland 20743-3701

Basic Fire/Arson Detection

Massachusetts Firefighting Academy
P.O. Box 1025, State Road
Stow, Massachusetts 01775

Arson Investigation

North Shore Community College
1 Fencroft Road
Danvers, Massachusetts 01923

Fire Investigation

Delta College
University Center
Michigan 487 10

Fundamentals of Arson Investigation

Henry Ford Community College
5101 Evergreen at Ford Road
Dearborn, Michigan 48128-1495

Fire/Arson Detection

Fire and Arson Investigation
Michigan Firefighter's Training Council
7150 Harris Drive
Lansing, Michigan 48913

Basic Fire Investigation School

Michigan State Police, Fire Marshal Division
7150 Harris Drive
Lansing, Michigan 48913

Arson Investigation

Mid Michigan Community College
1375 South Clare Avenue
Harrison, Michigan 48625

Fire/Arson Detection

Muskegon Community College
Regional Fire Training Center
221 South Quarterline Road
Muskegon, Michigan 49442

Arson Investigation

Bureau of Criminal Apprehension
Training and Development
1246 University Avenue
St. Paul, Minnesota 55104

(Basic Investigation Courses, cont.)

**Fire/Arson Investigation I
Fire/Arson Investigation II
Fire/Arson Investigation III**

Hennepin Technical College
7145 Harriet Avenue South
Richfield, Minnesota 55423

Annual State Fire School: Basic Fire Cause Determination

Annual State Fire School: Arson Detection

Minnesota State Fire Marshal Division
285 Bigelow Building
450 North Syndicate Street
St. Paul, Minnesota 55104

Fire Investigation

East Central College
Highway 50 and Prairie Dell Road
P.O. Box 529
Union, Missouri 63084

Fire and Arson Investigation and Detection

Jefferson College
1000 Viking Drive
Hillsboro, Missouri 63050

Fire Investigation

Penn Valley Community College
3201 Southwest Trafficway
Kansas City, Missouri 64111-2764

Annual Conference

Fire Ground Investigation

Professional Fire and Fraud Investigators Association
4120 West 2nd
Battlefield, Missouri 65619

Arson Investigation

Montana Department of Justice
Law Enforcement Academy Division
620 South 16th Avenue
Bozeman, Montana 59715-4198

Nebraska State Fire School: Basic Fire Investigation

Nebraska State Fire Marshal Office
246 South 14th Street
Lincoln, Nebraska 68508

Introduction to Fire Investigation

Southeast Community College, Lincoln Campus
88000 Street
Lincoln, Nebraska 68520

Fire/Arson Investigation

University of Nebraska at Omaha
60th and Dodge Street
Engineering Room #133
Omaha, Nebraska 68182-0181

Fire/Arson Detection

Nevada State Fire Marshal Division
Capitol Complex
Stewart Facility #107
Carson City, Nevada 89710

Arson Investigation

Truckee Meadows Community College
7000 Dandini Boulevard
Reno, Nevada 89512-3999

Fire Investigation

Camden County College
P.O. Box 200, College Drive
Blackwood, New Jersey 08012

Ninety Hour Criminal Justice Arson Investigators Course

New Jersey Division of Criminal Justice
Hughes Justice Complex
25 Market Street, CN 085
Trenton, New Jersey 08625

Fire Causes and Detection

Union County College
1033 Springfield Avenue
Cranford, New Jersey 07016

Fire Investigation

Albuquerque Technical-Vocational Institute
Main Campus
525 Buena Vista Southeast
Albuquerque, New Mexico 87106

Fire Investigations

Dona Ana Branch Community College
Box 30001, Department 3DA
Las Cruces, New Mexico 88003

Arson Detection

New Mexico Firefighters' Training Academy
P.O. Box 239
Socorro, New Mexico 87801

Arson Investigation

Mercy College
Criminal Justice Department
Social Science Building
Dobbs Ferry, New York 10522

(Basic Investigation Courses, cont.)

Fire Investigation

Onondaga Community College
Route 173
Syracuse, New York 13215

Arson Recognition Workshop

Suffolk County Arson Task Force
P.O. Box 127
Yaphank, New York 11980-0127

Preliminary Arson Investigation

North Carolina Justice Academy
P.O. Drawer 99
Salem, North Carolina 28385

Fire/Arson Detection

North Dakota State Fire Marshal Office
1835 Bismarck Expressway
Bismarck, North Dakota 58504

Fire/Arson Detection

Ohio Fire Academy
8895 East Main Street
Reynoldsburg, Ohio 43068

Fire/Arson Detection I

Oklahoma State University
Fire Service Training
Fire Building
Stillwater, Oklahoma 74078-0114

Fire Investigation

Central Oregon Community College
2600 Northwest College Way
Bend, Oregon 97701-5998

Fire Cause Determination

Oregon State Fire Marshal Office
4760 Portland Road Northeast
Salem, Oregon 97305-1760

Fire Investigation

Southwestern Oregon Community College
1988 Newmark
Coos Bay, Oregon 97420

Arson Investigation

Harrisburg Area Community College
One HACC Drive
Harrisburg, Pennsylvania 17110-2999

Fire/Arson Investigation

Holy Family College
Grant and Frankford Avenues
Philadelphia, Pennsylvania 19114-2094

Fire Arson Detection

Pennsylvania State Fire Academy
1150 Riverside Drive
Lewistown, Pennsylvania 17044

Basic Arson Investigation

South Carolina Fire Academy
2920 Fire Academy Road
West Columbia, South Carolina 29072

Fire/Arson Detection

Killian Community College
1600 South Menlo Avenue
Sioux Falls, South Dakota 57105

Fire Arson Detection

South Dakota State Fire Marshal Office
118 West Capitol
Pierre, South Dakota 57501-2036

Basic Arson Awareness

Introduction to Fire/Arson Investigation
Tennessee State Fire Marshal Office
500 James Robertson Parkway, 3rd Floor
Nashville, Tennessee 37243

Fire/Arson Detection

Tennessee State Fire School
Murfreesboro Area Vocational Technical School
1303 Old Fort Parkway
Murfreesboro, Tennessee 37129

Fire and Arson Investigation I

Austin Community College
1212 Rio Grande
Austin, Texas 78707

Basic Arson Investigation

Dallas County Fire Academy
10056 Marsh Lane, B
Dallas, Texas 75229

Fire and Arson Investigation I

El Centro College
Main and Lamar Streets
Dallas, Texas 75202-3604

Fire and Arson Investigation I

El Paso Community College
P.O. Box 20500
El Paso, Texas 79998

Fire and Arson Investigation

Odessa College
201 West University
Odessa, Texas 79764

(Basic Investigation Courses, cont.)

Fire Cause Determination and Arson Recognition

Texas Engineering Extension Service
The Texas A&M University System
College Station, Texas 77843-8000

Weekend Basic Fire Cause and Origin

Department of Fire Programs
Virginia Fire Services Board
2807 Parham Road, Suite 200
Richmond, Virginia 23294

Fire Investigation Procedures

J. Sargeant Reynolds Community College
1651 East Parham Road
Richmond, Virginia 23294

Fire Investigation Procedures

Northern Virginia Community College
Annandale Campus
8333 Little River Turnpike
Annandale, Virginia 22003

Investigation Procedures

Thomas Nelson Community College
P.O. Box 9407
Hampton, Virginia 23670

National Fire Academy - Train the Trainer

National Investigator Training
c/o Ed Stokes
Pierce County Fire Marshal's Office
2401 South 35th Street
Tacoma, Washington 98409-7494

Basic Fire Investigation

Olympic College
1600 Chester Avenue
Bremerton, Washington 98310-1699

Basic Fire Investigation

Role of the Firefighter in Fire Investigations

Washington State Fire Protection Services
State Fire Marshal
4317 Sixth Avenue
P.O. Box 48350
Olympia, Washington 98504-8350

Fire Investigation

Shepherd College
Shepherdstown, West Virginia 25443

Aspects of Fire Investigations

West Virginia Chapter IAAI
c/o Linda K. Wood, Secretary
P.O. Box 1045
Beckley, West Virginia 25802

Fire/Arson Investigation I and II

West Virginia State Fire Marshal Office
2100 Washington Street East
Charleston, West Virginia 25305

Fire/Arson Investigation

Fire/Arson Detection Course

Blackhawk Technical College
6004 Prairie Road
P.O. Box 5009
Janesville, Wisconsin 53547

Fire Investigation

Fox Valley Technical College
1825 North Bluemound Drive
P.O. Box 2277
Appleton, Wisconsin 54913-2277

Fire and Arson Investigation

Gateway Technical College
109 South Spring Street
Burlington, Wisconsin 53105

Fire and Arson Investigation

Gateway Technical College, Racine Campus
1001 South Main Street
Racine, Wisconsin 53403-1582

Fire Arson Detection

Madison Area Technical College
3550 Anderson Street
Madison, Wisconsin 53704

Fire/Arson Detection

Moraine Park Technical College
235 North National Avenue
P.O. Box 1940
Fond du Lac, Wisconsin 54936-1940

Basic and Advanced Fire Investigation

Northeast Wisconsin Technical College
2740 West Mason Street
P.O. Box 19042
Green Bay, Wisconsin 54307-9042

Fire/Arson Detection

Waukesha County Technical College
800 Main Street
Peawaukee, Wisconsin 53072

(Basic Investigation Courses, cont.)

Fire Arson Detection

Wisconsin Board of Vocational, Technical and Adult Education

310 Price Place

P.O. Box 7874

Madison, Wisconsin 53707

Fire/Arson Detection

Wyoming Fire Academy

2500 Academy Court

Riverton, Wyoming 82501

Fire/Arson Detection

Wyoming State Fire Marshal Office

Herschler Building, 1st Floor West

Cheyenne, Wyoming 82002

Behavioral Issues

Fire-Related Human Behavior

University of Cincinnati

Open Learning Fire Service Program

220 Victory Parkway, ML #103

Cincinnati, Ohio 45206

Cause and Origin

Fire Cause and Origin

Central Florida Fire Academy

2966 West Oak Ridge Road

Orlando, Florida 32809

Cause and Origin

Florida State Fire College

Bureau of Fire Standards and Training

11655 Northwest Gainesville Road

Ocala, Florida 32675-1330

Cause and Origin Determination

New York Department of State

Office of Fire Prevention and Control, Arson Bureau

162 Washington Avenue

Albany, New York 12231

Cause and Origin Determination

Suffolk County Arson Task Force

P.O. Box 127

Yaphank, New York 11980-0127

The Firefighter's Role in Fire Cause and Origin

Craven Community College

South Glenburnie Road at College Court

P.O. Box 885

New Bern, North Carolina 28563

Certificate in Arson Investigation

Arson Investigation Certificate: undergraduate level

Arson investigation Certificate: graduate level

University of New Haven

300 Orange Avenue

West Haven, Connecticut 06516

Certificate of Arson Investigation

Louisiana State University at Eunice

P.O. Box 1129

Eunice, Louisiana 70535

Fire Investigation Certificate

Oklahoma State University, OKC

900 North Portland

Oklahoma City, Oklahoma 73107

Arson Investigation Certificate Program

Mercyhurst College, North East Campus

16 West Division Street

North East, Pennsylvania 16428

Fire Science Investigation Certificate

Northern Virginia Community College

Annandale Campus

8333 Little River Turnpike

Annandale, Virginia 22003

Fire Investigation Certificate

Edmonds Community College

20000 68 Avenue West

Lynnwood, Washington 98036

Electrical

Investigation of Gas and Electrical Appliance Fires

Barker and Herbert Analytical Labs, Inc.

207 Maine Street

New Haven, Indiana 46774

Electrical Fire Cause Determination

New York Department of State

Office of Fire Prevention and Control, Arson Bureau

162 Washington Avenue

Albany, New York 1223 1

(Electrical, cont.)

**Fire Investigation: Electrical, Vehicle, Explosions
Electrical Fires for the Non-Electrical Engineer/
Investigator**

Hughes Institute for Continuing Education
P.O. Box 17968
Milwaukee, Wisconsin 53217-0968

Evidence

Collection, Recording, Protection of Evidence

Kansas State Fire Marshal Office
700 Southwest Jackson, Suite 600
Topeka, Kansas 66603-3714

Crime Scene Processing and Evidence Management

Montana State Department of Justice
Law Enforcement Academy Division
620 South 16th Avenue
Bozeman, Montana 59715-4198

Fire and Arson Detection: Crime Scene Search

Bergen County Police and Fire Academy
281 Campgaw Road
Mahwah, New Jersey 07430

**Criminal Law, Evidence and Procedure I
Criminal Law, Evidence and Procedure II**

Northern Virginia Community College
Annandale Campus
8333 Little River Turnpike
Annandale, Virginia 22003

Explosives

Fire Investigation: Electrical, Vehicle, Explosions

Hughes Institute for Continuing Education
P.O. Box 30430
Mesa, Arizona 85275-0430

Explosives, (Low): Analysis

California Criminalistics Institute
4949 Broadway
Sacramento, California 95820

**Arson/Explosive Investigation 1A
Arson/Explosive Investigation 1B**

California State Fire Marshal Office
Arson/Bomb Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823

Annual Training Conference

International Association of Bomb Technicians
and Investigators
P.O. Box 6609
Colorado Springs, Colorado 80934

**Advanced Explosives Investigative Techniques
Training Program**

Department of the Treasury, Bureau of Alcohol,
Tobacco and Firearms
Federal Law Enforcement Training Center
Glynco, Georgia 31524

Fire, Arson and Explosion Investigation,

Independent Home Study Course
Investigations Institute
2155 Stonington Avenue, Suite 118
Hoffman Estates, Illinois 60195

**National Fire, Arson and Explosion Investigation
Training Program**

National Association of Fire Investigators
P.O. Box 957257
Hoffman Estates, Illinois 60195

Advanced Explosion Investigation

Explosion Investigation Program (Basic Course)

University of Kansas
Fire Service Training
Continuing Education Building
Lawrence, Kansas 66045-2624

Explosive Materials and Devices

Eastern Kentucky University
253 Stratton - 3131
Richmond, Kentucky 40475

Explosions and Bombs,

Rhode Island State Fire Marshal Office
1270 Mineral Springs Avenue
North Providence, Rhode Island 02904,

National Bomb Investigations Training Course

U.S. Postal Inspection Service
Division of Forensic and Technical Services
22433 Randolph Road
Dulles, Virginia 20104-1000

Explosives Recognition for Public Safety Officers

West Virginia State Fire Marshal Office
2100 Washington Street East
Charleston, West Virginia 25305

Explosives: Post Blast

Bureau of Alcohol, Tobacco and Firearms
517 E. Wisconsin Avenue, Room 638
Milwaukee, Wisconsin 53202

Failure Analysis

Failure Analysis

Worcester Polytechnic Institute
Center for Firesafety Studies
100 Institute Road
Worcester, Massachusetts 01609

Fatal Fires

Fatal Fires

Minnesota State Fire Marshal Division
285 Bigelow Building .
450 North Syndicate Street
St. Paul, Minnesota 55104

Fatal Fire Investigation Seminar

New Jersey Chapter IAAI
c/o Edward Soper, Education Chair
1027 Highway 33 East
Freehold, New Jersey 09728

Fire/Arson Investigation (general courses)

Fire Investigator

Alabama Fire College
2015 McFarland Boulevard, East
Tuscaloosa, Alabama 35405

Fire Cause Determination

Chattahoochee Valley State Community College
2602 College Drive
Phenix City, Alabama 36869

Fire Investigation Technology

Community College of the Air Force
Simler Hall, Suite 128
130 West Maxwell Boulevard
Maxwell Air Force, Alabama 36112-6613

Fire Cause Determination

Jefferson State Community College
Pinson Valley Parkway at 2601 Carson Road
Birmingham, Alabama 35215-3098

Fire Cause Determination

Snead State Junior College
P.O. Drawer D
Boaz, Alabama 35957

Fire Cause Determination

Wallace State College, Hanceville
Hanceville, Alabama 35077-9080

Fire/Arson Investigation I, II, III, IV

Arizona Chapter IAAI
c/o Eric Cooper
Pima County Sheriff's Department, Arson Detail
1750 East Benson Highway
Tucson, Arizona 85714

Fire Investigation

Mohave Community College
1971 Jagerson Avenue
Kingman, Arizona 86401

Arson Investigation I

Arson Investigation II
Northland Pioneer College
P.O. Box 610
Holbrook, Arizona 86025

Fire Investigation

Phoenix College
1202 West Thomas Road
Phoenix, Arizona 85013

Fire Investigation I

Fire Investigation II

Scottsdale Community College
9000 East Chaparral Road
Scottsdale, Arizona 85250-2699

Fire Investigation

Yavapai College
1100 East Sheldon Street
Prescott, Arizona 86301

Fire/Arson Investigation

Arkansas Fire Academy
P.O. Box 3499
East Camden, Arkansas 71701

Arson Investigation

Garland County Community College
100 College Drive
Hot Springs, Arkansas 71913

Fire Investigation 1B

Allan Hancock College
800 South College Drive
Santa Maria, California 93454

Arson/Fire Investigation

Antelope Valley College
3041 West Avenue K
Lancaster, California 93536-5426

(General Investigation Courses, cont.)

Preliminary Fire Investigation

Arson Investigation II
California Department of Forestry Academy
4501 Highway 104
Ione, California 95640

Investigation 1B: Techniques of Fire Investigation

California State Fire Marshal Office
Training Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823

Fire Investigation 1B

College of Marin
Indian Valley Campus
Novato, California 94947

Fire Investigation 1B

College of the Desert
43-500 Monterey Avenue
Palm Desert, California 92260

Fire Investigation

Arson Investigation
Columbia College
Yosemite Community College District
P.O. Box 1849
Columbia, California 95310-1849

Fire Investigation 1B: Techniques of Fire Investigation

Crafton Hills College
11711 Sand Canyon Road
Yucaipa, California

Arson Detection and Control

El Camino College
16007 Crenshaw Blvd.
Torrence, California 90506

Fire Investigation IB (Fire Academy 251B)

Fire Investigation

Fire Investigation II

Rancho Santiago College
Fire Technology Department
1530 West 17th Street
Santa Ana, California 92706

Fire Investigation

Rio Hondo College
3600 Workman Mill Road
Whittier, California 90608

Fire Investigation 1B

San Diego Miramar College
10440 Black Mountain Road
San Diego, California 92126

Fire Investigation

San Francisco Community College
50 Phelan Avenue
San Francisco, California 94112

Fire Investigation

Santa Rosa Junior College
Fire Technology Department
1501 Mendocino Avenue
Santa Rosa, California 95401-4395

Fire Investigation I

Fire Investigation 1B

Shasta College
P.O. Box 496006
Redding, California 96049-6006

Fire Investigation 1B: Techniques of Fire Investigation

Sierra College
5000 Rocklin Road
Rocklin, California 95677

Fire Investigation 1B

Solano Community College
4000 Suisun Valley Road
Suisun, California 94585

Investigation of Fires

Yosemite Community College District
2201 Blue Gum Avenue
Modesto, California 95352

Fire Cause Determination

Arson Investigation
Aims Community College
Emergency Services Academy
P.O. Box 69
Greeley, Colorado 80632

Fire Investigation

Pikes Peak Community College
5675 South Academy Boulevard
Colorado Springs, Colorado 80906-5498

Fire Marshal/Inspector Certification Course: Fire Investigation Module

Connecticut Department of Public Safety
Division of Fire and Building Safety
294 Colony Street
Meriden, Connecticut 06450-2098

(General Investigation Courses, cont.)

Fire Investigation

Hartford State Technical College
401 Flatbush Avenue
Hartford, Connecticut 06106

Fire Investigation

Norwalk State Technical College
181 Richards Avenue
Norwalk, Connecticut 06854

Fire Investigation

Thames Valley State Technical College
514 New London Turnpike
Norwich, Connecticut 06360

Arson Investigation I

Arson Investigation II

University of New Haven
300 Orange Avenue
West Haven, Connecticut 06516

Arson Detection

Delaware State Fire School
R.D.2, Box 166
Dover, Delaware 19901

Fire Investigation

Brevard Community College
Florida Advanced Technology Center
250 Grassland Road Southeast
Palm Bay, Florida 32909-2299

Arson and Fire Investigation

Broward Community College
A. Hugh Adams Central Campus
3501 Southwest Davie Road
Davie, Florida 33314

Latent Investigation

Central Florida Fire Academy
2966 West Oak Ridge Road
Orlando, Florida 32809

Fire Detection and Investigation

Daytona Beach Community College
P.O. Box 2811
Daytona Beach, Florida 32120-2811

Fire and Arson Investigation I

Edison Community College, Lee County Campus
8099 College Parkway, Southwest
P.O. Box 06210
Fort Meyers, Florida 33906-6210

Fire Investigation

Florida Community College at Jacksonville
11901 Beach Blvd.
Jacksonville, Florida 32216

Principles of Fire Investigation

Latent Investigation
Florida State Fire College
Bureau of Fire Standards and Training
11655 Northwest Gainesville Road
Ocala, Florida 32675-1330

Fire Cause and Arson Detection

Gulf Coast Community College
5230 West U.S. Highway 98
Panama City, Florida 32401-1041

Arson Investigation

Hillsborough Community College
Ybor Campus
P.O. Box 5096
Tampa, Florida 33675-5096

Fire and Arson Detection

Indian River Community College
3209 Virginia Avenue
Fort Pierce, Florida 34981-5599

Fire Investigation/Arson Detection

Palm Beach Community College
4200 Congress Avenue
Lake Worth, Florida 33461

Fire Investigation

Seminole Community College
100 Weldon Boulevard
Sanford, Florida 32773-6199

Arson Investigation I

St. Petersburg Junior College
P.O. Box 13489
St. Petersburg, Florida 33733

Arson Investigation

Tallahassee Community College
444 Appleyard Drive
Tallahassee, Florida 32304-2895

Fire Investigation

Valencia Community College, West Campus
1800 South Kirkman Road
Orlando, Florida 32811

Fire/Arson Investigation

Department of the Treasury, Bureau of ATF
Federal Law Enforcement Training Center
Glynco, Georgia 31524

(General Investigation Courses, cont.)

Fire/Arson Investigation I, II, III

Fullton County Public Safety Training Center
4710 Campbell Drive
College Park, Georgia 30349

Fire Cause Determination

Boise State University
1910 University Drive
Boise, Idaho 83725

Fire/Arson Investigation

Idaho State Fire Marshal Office
500 South 10th Street
Boise, Idaho 83720

Fire and Arson Investigation I

Fire and Arson Investigation II

Belleville Area College
2500 Carlyle Road
Belleville, Illinois 62221

Arson Investigation

Elgin Community College
1700 Spartan Drive
Elgin, Illinois 60123-7193

Fire Investigator

Illinois Valley Community College
2578 East 350th Road
Oglesby, Illinois 61348-1099

**Fire, Arson and Explosion Investigation,
Independent Home Study Course**

Investigations Institute
2155 Stonington Avenue, Suite 118
Hoffman Estates, Illinois 60195

Fire Investigation

Joliet Junior College
1216 Houbolt Drive
Joliet, Illinois 60436

**National Fire, Arson and Explosion Investigation
Training Program**

National Association of Fire Investigators
P.O. Box 957257
Hoffman Estates, Illinois 60195

Arson Investigation for Public Safety Agencies

Northwestern Traffic Institute
P.O. Box 1409
Evanston, Illinois 60204

Fire Investigation

Oakton Community College
1600 East Golf Road
Des Plaines, Illinois 60016

Fire Investigation

Richland Community College
One College Park
Decatur, Illinois 62521

Fire Investigation

Rock Valley College
3301 North Mulford Road
Rockford, Illinois 61111

Fire Investigation

State Community College
601 James R. Thompson Boulevard
East St. Louis, Illinois 62201

Arson

Triton College
2000 Fifth Avenue
River Grove, Illinois 60171

**Incendiary Fire Analysis and Investigation
(Independent Study)**

Western Illinois University
Educational Broadcasting and Independent Study
305 Memorial Hall
Macomb, Illinois 61455

Fire/Arson Investigation Classes

Indiana Fire Instructors Association
424 Drake Road
Kendallville, Indiana 46755

Sixty-Four Hour Master Fire/Arson Course

Indiana State Fire Marshal Office
Indiana Government Center South
402 West Washington, E241
Indianapolis, Indiana 46204

Fire/Arson Investigation

Indiana Vocational Technical College, Fort Wayne
3800 North Anthony Boulevard
Fort Wayne, Indiana 46805

Fire/Arson Investigation

Indiana Vocational Technical College, Indianapolis
One West 26th Street
P.O. Box 1763
Indianapolis, Indiana 46206-1763

(General Investigation Courses, cont.)

Sixty-Four Hour Master Fire/Arson Course

Wayne Township Training Academy
700 North Highschool Road
Indianapolis, Indiana 46214

Fire Investigation

Des Moines Area Community College
2006 Ankeny Boulevard
Ankeny, Iowa 50021

Fire/Arson Training School

Iowa State Fire Marshal
Wallace State Office Building
East 9th and Grand Avenue
Des Moines, Iowa 50319

Fire/Arson Investigation

Iowa State University
Fire Service Institute
Ames, Iowa 50011-3100

Fire and Arson Investigation II

Dodge City Community College
2501 North 14th
Dodge City, Kansas 67801

Arson Investigation

Hutchinson Community College
1300 North Plum
Hutchinson, Kansas 67501

Fire Investigation Course

Kansas Chapter IAAI
c/o W.L. Wells, Training Chairman
625 North Nettleton Avenue
Bonner Springs, Kansas 66012

Fire and Investigation

Kansas City Community College
Engineering Technology Division
7250 State Avenue
Kansas City, Kansas 66112

Incendiary Fire Cause and Origin

Kansas State Fire Marshal Office
700 Southwest Jackson, Suite 600
Topeka, Kansas 66603-3714

Arson Investigation

Eastern Kentucky University
253 Stratton - 3131
Richmond, Kentucky 40475

Fire Investigation Methods

Delgado Community College
615 City Park Avenue
New Orleans, Louisiana 70119

Fire Investigator

Louisiana State University
Firemen Training Program
Division of Continuing Education
6868 Nicholson Drive
Baton Rouge, Louisiana 70820

Fire Investigation II

Maine Fire Training and Education
Southern Maine Vocational Technical Institute
Fort Road
South Portland, Maine 04106

Fire and Arson Investigation

York County Fire Attack School
Sanford Fire Department
244 Main Street
Sanford, Maine 04073

Investigation of Fires

Catonsville Community College
800 South Rolling Road at Valley Road
Baltimore County, Maryland 21228

Fire and Arson Investigation

Community College of Baltimore
Harbor Campus
600 East Lombard Street
Baltimore, Maryland 21202

Fire Investigation

Maryland Fire and Rescue Institute Training Academy
University of Maryland
College Park, Maryland 20742

Incendiary Fire Analysis and Investigation

National Fire Academy
Open Learning Fire Service Program
16825 South Seton Avenue
Emmitsburg, Maryland 21727

Fire Investigation

Bristol Community College
777 Elsbree Street
Fall River, Massachusetts 02720-7395

Fire Cause Detection

Massasoit Community College
Division of Continuing Education
One Massasoit Boulevard
Brockton, Massachusetts 02402-3996

(General Investigation Courses, cont.)

Fire Investigation and Arson

Quinsigamond Community College
670 West Boylston Street
Worcester, Massachusetts 01606

Fire Cause Determination

Kellogg Community College
450 North Avenue
Battle Creek, Michigan 49017

Fire and Arson Investigation

Lake Superior State University
Sault Sainte Marie, Michigan 49783

Arson Investigation

Fire Investigation I

Fire Investigation II

Lansing Community College
400-600 North Washington Square
P.O. Box 40010
Lansing, Michigan 48901-7210

Fire/Arson Investigation Series

Macomb Criminal Justice Training Center
32101 Caroline
Fraser, Michigan 48026

On Scene Arson

Intermediate Arson

Bureau of Criminal Apprehension
Training and Development
1246 University Avenue
St. Paul, Minnesota 55104

Fire/Arson Investigation

Commissioner of Insurance/Mississippi State Fire
Marshal
Woolfolk Building
500 North West Street
Jackson, Mississippi 39225

Fire Investigator

Mississippi Fire Academy
Route 1D, Box 295
Jackson, Mississippi 39208

Fire Investigator Course and Certification Program

Missouri Division of Fire Safety
P.O. Box 844
Jefferson City, Missouri 65102

Fire Cause Determination

Professional Fire and Fraud Investigators Association
4120 West 2nd
Battlefield, Missouri 65619

Fire Investigation

St. Louis Community College at Forest Park
5600 Oakland Avenue
St. Louis, Missouri 63110-1393

Fire Investigation

Community College of Southern Nevada
3200 East Cheyenne Avenue
North Las Vegas, Nevada 89030

Fire/Arson Investigation

Nevada State Fire Marshal Division
Capitol Complex
Stewart Facility #107
Carson City, Nevada 89710

Fire/Arson Investigation

Meadowood Fire Training Center
P.O. Box 969
Keene, New Hampshire 03431

Fire Investigation

New Hampshire Technical College, Laconia
Route 106, Prescott Hill
Laconia, New Hampshire 03246

Fire and Arson Detection

Bergen County Police and Fire Academy
281 Campgaw Road
Mahwah, New Jersey 07430

Fire Investigations

Essex Community College, West Essex Campus
730 Bloomfield Avenue
West Caldwell, New Jersey 07006

Fire Investigation

Mercer County Community College
P.O. Box B
Trenton, New Jersey 08690

Elements of Arson Investigation

Ocean County College
College Drive
P.O. Box 2001
Toms River, New Jersey 08754-2001

Fire and Arson Investigation

Clovis Community College
417 Schepps Boulevard
Clovis, New Mexico 88101-8345

Fire/Arson Investigation

New Mexico Firefighters' Training Academy
P.O. Box 239
Socorro, New Mexico, 87801

(General Investigation Courses, cont.)

Arson Investigation

Broome Community College
P.O. Box 1017
Binghamton, New York 13902

Fire Investigation

Erie Community College, South Campus
4140 Southwestern Boulevard
Orchard Park, New York 14127-2199

Fire/Arson Investigation Training

John Jay College of Criminal Justice/CUNY
The Fire Science Institute
899 Tenth Avenue
New York, New York 10019

Fire Causes and Arson Investigation

Monroe Community College
1000 East Henrietta Road
Rochester, New York 14623

**Arson Investigation, Safety Management, OSHA
(Federal and State)**

Nassau Community College
Criminal Justice Department, Nassau Hall
Garden City, New York 11530

Fire Investigation

New York Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

Investigation and Detection of Fire Incidents

Rockland Community College
College Road
Suffern, New York 10901

Fire Investigation

Schenectady County Community College
78 Washington Avenue
Schenectady, New York 12305

Arson and Fire Investigation

Suffolk County Community College
Ammerman Campus, Riverhead Building
533 College Road
Selden, New York 11784-2899

Arson Investigation

Alamance Community College
P.O. Box 623
Haw River, North Carolina 27258

Arson Investigation I

Arson Investigation II

Central Piedmont Community College
P.O. Box 35009
Charlotte, North Carolina 28235

Arson Detection and Investigation

Coastal Carolina Community College
444 Westrien Boulevard
Jacksonville, North Carolina 28540

Arson: Ignition to Conviction

Craven Community College
South Glenburnie Road at College Court
P.O. Box 885
New Bern, North Carolina 28563

Arson Investigation

Durham Technical Community College
1637 Lawson Street
Durham, North Carolina 27703-5023

Fire Detection and Investigation

Gaston College
201 Highway, 321 South
Dallas, North Carolina 28034- 1499

Fire Detection and Investigation

Guilford Technical Community College, Greensboro
501 West Washington Street
Greensboro, North Carolina 27401

Arson Investigation

North Carolina Justice Academy
P.O. Drawer 99
Salemberg, North Carolina 28385

Arson Investigation

North Carolina State Bureau of Investigation
3320 Old Garner Road
P.O. Box 29500 NCSBI
Raleigh, North Carolina 27626-0500

Arson and Unlawful Burning

Wake Technical Community College
9101 Fayetteville Road
Raleigh, North Carolina 27603-5696

Fire Detection and Investigation

Wilson Technical Community College
902 Herring Avenue
Wilson, North Carolina 27893

Fire Investigation Methods 235 and 236

Cuyahoga Community College, Metro Campus
2900 Community College Avenue
Cleveland, Ohio 44115

(General Investigation Courses, cont.)

Ohio Arson School

Department of Commerce
Division of State Fire Marshal
8895 East Main Street
Reynoldsburg, Ohio 43068

Fire Investigation Methods

Hocking College
3301 Hocking College Parkway
Nelsonville, Ohio 45764

Fire Investigation Methods

Lakeland Community College
7700 Clocktower Drive
Mentor, Ohio 44060-7594

Fire Investigation Methods I

Fire Investigation Methods II

Lorain County Community College
1005 North Abbe Road
Elyria, Ohio 44035

Arson Investigation I

Arson Investigation II

Arson Investigation III

Ohio Fire Academy
8895 East Main Street
Reynoldsburg, Ohio 43068

Fire Investigation Procedures

Sinclair Community College
444 West Third Street
Dayton, Ohio 45402-1460

Fire Investigation Methods

Stark Technical College
6200 Frank Road Northwest
Canton, Ohio 44720

Arson

Fire Investigation Methods

The University of Akron
Simmons Hall, 61A
Akron, Ohio 44325-4304

Fire Determination Strategies

Incendiary Fire Analysis and Investigation

University of Cincinnati
Open Learning Fire Service Program
220 Victory Parkway, ML #103
Cincinnati, Ohio 45206

Fire Cause, Determination and Investigation

Oklahoma State University
Fire Service Training
Fire Building
Stillwater, Oklahoma 74078-0114

Fire Investigation Course

Oklahoma State University, OKC
900 North Portland
Oklahoma City, Oklahoma 73107

Fire Investigation and Arson

Tulsa Junior College, Metro Campus
909 South Boston
Tulsa, Oklahoma 74119

Fire Investigation (33 hours)

Fire Cause Determination

Fire Investigation (12 hours)

Chemeketa Community College
4000 Lancaster Drive North
Salem, Oregon 97309

Fire Investigation

Portland Community College
P.O. Box 19000
Portland, Oregon 97280-0990

Fire Investigation

Umpqua Community College
P.O. Box 967
Roseburg, Oregon 97470

Fire Investigation and Arson

Luzerne County Community College
1333 South Prospect Street
Nanticoke, Pennsylvania 18634

Fire Investigation

Montgomery College
P.O. Box 400
340 DeKalb Pike
Blue Bell, Pennsylvania 19422-0758

Fire Causes and Investigation

Northampton Community College
3835 Green Pond Road
Bethlehem, Pennsylvania 18017-7599

Fire Investigation/Arson Detection

Pennsylvania State Fire Academy
1150 Riverside Drive
Lewistown, Pennsylvania 17044

(General, Investigation Courses, cont.)

Arson Investigation I

Westmoreland County Community College
Armbrust Road
Youngwood, Pennsylvania 15697-1895

Arson Investigation

Providence College
School of Continuing Education,
River Avenue
Providence, Rhode Island 02918

Various Investigation Courses

South Dakota State Fire Marshal Office
118 West Capitol
Pierre, South Dakota 57501-2036

State Fire School

South Dakota Firefighters Association
P.O. Box 122
Colton, South Dakota 57018

Fire Causes and Investigation

Chattanooga State Technical Community College
4501 Amnicola Highway
Chattanooga, Tennessee 37406

Incendiary Fire Analysis and Investigation

Memphis State University
Open Learning Fire Service Program
University College
Johnson Hall, G-1
Memphis, Tennessee 38152

Annual Fire Investigation School

Tennessee State Fire Marshal Office
500 James Robertson Parkway, 3rd Floor
Nashville, Tennessee 37243

Fire and Arson Investigation

Amarillo College
P.O. Box 447
Amarillo, Texas 79178

Fire and Arson Investigation II

Austin Community College
1212 Rio Grande
Austin, Texas 78707

Fire and Arson Investigation

Fire and Arson Investigation II

Cisco Junior College
Route 3, Box 3
Cisco, Texas 76437

Fire and Arson Investigation

Fire Investigation II

College of the Mainland
1200 Amburn Road
Texas City, Texas 77591

Fire and Arson Investigation II

El Centro College
Main and Lamar Streets
Dallas, Texas 75202-3604

Fire and Arson Investigation

Howard College
1001 Birdwell Lane
Big Spring, Texas 79720

Fire and Arson Investigation

Kilgore College
1100 Broadway
Kilgore, Texas 75662-3299

Fire Investigation

Midland College
3600 North Garfield
Midland, Texas 79705

Fire and Arson Investigation

Techniques of Fire Investigation
Tarrant County Junior College
4801 Marine Creek Parkway
Fort Worth, Texas 76179-3399

Fire Cause Detection and Arson Investigation Course

Texas Engineering Extension Service
The Texas A&M University System
College Station, Texas 77843-8000

Fire/Arson Detection

Utah State Fire Marshal Office
4501 South 2700 West
Salt Lake City, Utah 84119

Annual Utah Fire School: Fire Arson Investigation

Annual Utah Fire School: Fire Cause Determination

Annual Utah Fire School: Arson Investigation

Fire Cause Determination

Arson Investigation

Utah Valley Community College
800 West 1200 South
Orem, Utah 84058-5999

Fire Investigation for the Firefighter

State of Vermont
Fire Service Training Council
P.O. Box 53
Pittsford, Vermont 05763

(General Investigation Courses, cont.)

Investigator II

Department of Fire Programs
Virginia Fire Services Board
2807 Parham Road, Suite 200
Richmond, Virginia 23294

Investigation Procedures

Tidewater Community College
Portsmouth Campus
State Route 135
Portsmouth, Virginia 23703

Fire Investigation

Columbia Basin College
2600 North 20th
Pasco, Washington 99301

The Fingerprint of Fire and Arson: A Reconstruction Approach

Hughes Institute for Continuing Education
P.O. Box 17968
Milwaukee, Wisconsin 53217-0968

Fire Hazards and Causes

Fire Arson Investigation

Madison Area Technical College
3550 Anderson Street
Madison, Wisconsin 53704

Fire Investigation

Milwaukee Area Technical College, North Campus
55 West Highland Road
Mequon, Wisconsin 53092

Fire Investigation

Moraine Park Technical College
235 North National Avenue
P.O. Box 1940
Fond du Lac, Wisconsin 54936-1940

Causes and Investigations

Casper College
125 College Drive
Casper, Wyoming 82601

Fire Causes and Investigations

Laramie County Community College
1400 East College Drive
Cheyenne, Wyoming 82007-3299

Fire/ Arson Investigation(general seminars)

Arson Investigation Seminar

Alabama Association of Arson Investigators
(Alabama Chapter IAAI)
c/o Gerald Bartig, Secretary
11207 Woodcrest Drive Southeast
Huntsville, Alabama 35803

Annual Fire and Arson Investigation Seminar

Alaska Association of Fire and Arson Investigators
(Alaska Chapter IAAI)
c/o Michael Donovan, President
12408 Winter Park Circle
Eagle River, Alaska 99577

Spring and Fall Seminars

Arkansas Chapter IAAI
c/o Milton Dillingham, Secretary
Stuttgart Fire Department
512 South Main Street
Stuttgart, Arkansas 72160

Spring or Fall Seminar

Colorado Chapter IAAI
c/o Donald Peak, President
P.O. Box 27297
Englewood, Colorado 80227

Annual Seminar

Metropolitan Arson Investigators Association
8220 Louise Drive
Denver, Colorado 80232

Annual Seminar

Connecticut Chapter IAAI
c/o Dennis Flynn, Secretary
9 Woodridge Road
West Haven, Connecticut 06516

Regional Seminar

Delaware Chapter IAAI
c/o Robert Montgomery Jr., Secretary
159 Cook Court
Smyrna, Delaware 19977

Annual Seminar

Florida Advisory Committee on Arson Prevention
P.O. Box 1654
Winter Park, Florida 32790-1654

Annual Florida Arson Seminar

Florida Arson Seminar
P.O. Box 2846
Orlando, Florida 32802

(General Investigation Seminars, cont.)

Fire and Arson Investigation Schools and Annual Seminar

Florida Chapter IAAI
c/o Robert R. Gentile, Secretary
2302 North Wallen Drive
Lake Park, Florida 33410

Fire/Arson Investigation Seminars

Georgia Chapter IAAI
c/o Frank H. Carter, Secretary
Inserv South, Inc.
28 Perimeter Center East
Suite 100
Atlanta, Georgia 30346

Southeastern Arson Seminar

Southeastern Arson Seminar
Georgia Center for Continuing Education
The University of Georgia
Athens, Georgia 30602-3603

Annual Fire/Arson Investigation Seminar

Idaho Fire and Arson Investigators Association
(Idaho Chapter IAAI)
c/o Ben Estes, Secretary
P.O. Box 4024
Pocatello, Idaho 83205-4024

Annual Seminar and Regional Seminars

Illinois Chapter IAAI
c/o Carl Dropka, Secretary
233 1 South Des Plaines Avenue
North Riverside, Illinois 60546

Annual Conference

Northern Illinois Arson Investigators
c/o Terry Pitkus
12605 Ventura
Rockford, Illinois 61111

August F. Mazzone Fire and Arson Conference

Southern Illinois Arson Investigators Association
9510 Collinsville Road
Collinsville, Illinois 62234

Annual Third District Fire Investigators Seminar

Third District Fire Investigators
684 Wentworth
Calumet City, Illinois 60409

Arson Investigation Seminars

Indiana Chapter IAAI
c/o Steve Cook, Secretary
615 North Dequincy Street
Indianapolis, Indiana 46201

Fire and Arson Seminar

Iowa Chapter IAAI
c/o Roger Heglund, Secretary
P.O. Box 226
Ankeny, Iowa 50021

Annual Seminar

Basic Fire Investigation Seminar

Kansas Chapter IAAI
c/o W.L. Wells, Training Chairman
625 North Nettleton Avenue
Bonner Springs, Kansas 66012

Regional Training Seminars

International Association of Arson Investigators
5616 Bardstown Road
P.O. Box 91119
Louisville, Kentucky 40291*
(*moving to St. Louis, Missouri, early in 1993)

Fire/Arson Seminar

Kentucky Chapter IAAI
c/o Michael B. Barry Sr., Secretary
3421 Boston Road
Lexington, Kentucky 40503

Annual Training Seminar

Louisiana Chapter IAAI
c/o Aron K. Hoyt, Secretary
P.O. Box 4462
Pineville, Louisiana 71361-4462

Spring Training Seminar

DC/MD Chapter IAAI
c/o Sue Beck, Secretary
Bureau of Alcohol, Tobacco and Firearms
1401 Research Boulevard
Rockville, Maryland 20850

Annual Arson Investigation Seminar

Maryland Arson Investigators Association
P.O. Box 562
Crownsville, Maryland 21032

Annual Seminar and Regional Seminars

Michigan Chapter IAAI
P.O. Box 187
Dimondale, Michigan 48821

Annual Fire and Arson Investigation Conference

Minnesota Chapter IAAI
c/o Mary Nachbar, President
Minnesota State Fire Marshal Division
285 Bigelow Building
450 North Syndicate Street
St. Paul, Minnesota 55104

(General Investigation Seminars, cont.)

Fire/Arson Investigation Seminars

Mississippi Fire Investigators Association
(Mississippi Chapter IAAI)
c/o Tommy Saffle, Secretary
809 Spring Lake Drive
Terry, Mississippi 39170

Annual Seminar, Statewide Arson Training Course

Missouri Chapter IAAI
c/o David Snarr, Secretary
125 Madison
Macon, Missouri 63552

Fire Investigation Seminar

Montana State University
Fire Training School
2100 16th Avenue South
Great Falls, Montana 59405

Fire and Arson Investigation Mini Seminars

Nebraska Chapter IAAI
c/o Charles Hoffman, Secretary
2115 Park Drive
Grand Island, Nebraska 68801

Annual Nebraska Fire and Arson Investigation Conference

Southeast Community College
Adult Education
8800 "O" Street
Lincoln, Nebraska 68520

Arson Investigation Seminars

Nevada Chapter IAAI
c/o Sonja Drase
1202 South Martin Luther King Boulevard
Las Vegas, Nevada 89102

Biannual Training Seminars

New Hampshire Chapter IAAI
c/o George Sykes, Secretary
Lebanon Fire Department
21 South Park Street
Lebanon, New Hampshire 03766

Arson Seminar

St. Anselm College
87 St. Anselm Drive
Manchester, New Hampshire 03102-7000

Rutgers Arson and Fire Conference

Rutgers University
Center for Government Services
P.O. Box 5079
New Brunswick, New Jersey 08903

National Arson Investigation Training Seminar

Insurance Committee for Arson Control
110 William Street
New York, New York 10038

Fire Arson Seminar

New York Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

Spring and Winter Seminars

New York State Fire Investigators
(New York Chapter IAAI)
c/o Craig Corey, Secretary
P.O. Box 16267
Rochester, New York 14616

Annual Fire Investigation Seminar

Basic Arson Seminar
North Carolina Chapter IAAI
c/o Nancy H. Johnson, Secretary
14039 Woody Point Road
Charlotte, North Carolina 28278

Southern Ohio Arson Seminar

Department of Commerce
Division of State Fire Marshal
8895 East Main Street
Reynoldsburg, Ohio 43068

Greater Cincinnati Regional Fire Arson Investigators Seminar

Greater Cincinnati Regional Fire Arson Investigators
Seminar
P.O. Box 75067
Cincinnati, Ohio 45275

KENT Fire Education Conference

KENT Fire Education Conference
c/o Don Beckett
320 South Depeyster Street
Kent, Ohio 44240

Midwestern Annual Arson Seminar

Midwestern Ohio Arson Seminar Inc.
201 West Poplar Street
Sidney, Ohio 45365

Northern Ohio Arson Seminar

Northern Ohio Arson Seminar
c/o Chief Ron Baker
Ashland Fire Department
274 Cleveland Avenue
Ashland, Ohio 44805

(General Investigation Seminars, cont.)

Northwest Ohio Arson Seminar

Northwest Ohio Arson Seminar
c/o David Sidebottom
5212 Hill Avenue
Toledo, Ohio 43615

Warren County Arson Task Force

Warren County Arson Task Force
3378 Townsley Drive
Loveland, Ohio 45140

Annual Conference

Regional Seminars
Oklahoma Chapter IAAI
c/o Mark Kiem, Secretary
P.O. Box 974
Stillwater, Oklahoma 74076

Fire Marshal's Association of Oklahoma Fire/Arson Investigation Seminars

Oklahoma State Fire Marshal Office
4030 Lincoln Boulevard, Suite 100
Oklahoma City, Oklahoma 73105

Annual Fire Investigation Seminar

McMinnville Fire Department
175 East First Street
McMinnville, Oregon 97128

Annual Seminar

Spring and Fall Advanced Fire and Arson Conferences

Oregon Chapter IAAI
c/o Dave Harms, Secretary
55 Southwest Ash Street
Portland, Oregon 97213

Annual Seminar

Pennsylvania Chapter IAAI
c/o Michael Moonblatt, Secretary
8230 Old York Road
Elkins Park, Pennsylvania 19117

Annual Rhode Island State Fire Investigators Seminar

Rhode Island State Fire Marshal Office
1270 Mineral Spring Avenue
North Providence, Rhode Island 02904

Arson Investigation Seminar

Carolina Fire Investigators Association
c/o Lt. Doug Ross
P.O. Box 1045
Taylors, South Carolina 29687

Arson Related Seminars

South Carolina Chapter IAAI
c/o Wilmon L. Hutto, Jr., Secretary
3720 Mineral Springs Road
Lexington, South Carolina 29073

Arson Investigation Seminar

South Dakota Chapter IAAI
c/o Helen King, Secretary
P.O. Box 975
Pierre, South Dakota 57501

Quarterly Meetings

A Texas Advisory Council on Arson (ATAC)
800 Brazos Street, Suite 4220
Austin, Texas 78701

Central East Texas Arson Investigators Seminar

City of Longview Fire Marshal Office
P.O. Box 1952
Longview, Texas 75606

Gulf Coast Fire Prevention Seminar

Gulf Coast Fire Prevention Seminar
c/o Peter Pavlovsky
1017 4th Street
Rosenburg, Texas 77471

Annual Texas Fire and Arson Investigators Seminar

Texas Engineering and Extension Service
Fire Protection Training Division
The Texas A & M University System
College Station, Texas 77843-8000

Annual Seminar

Utah Chapter IAAI
c/o Dennis Montgomery, Secretary
Ogden City Fire Department
320 26th Street
Ogden, Utah 84401-3108

IAAI Annual One Week Seminar

IAAI Fall Fire Cause and Origin Seminar

Department of Fire Programs
Virginia Fire Services Board
2807 Parham Road, Suite 200
Richmond, Virginia 23294

Arson Investigation Seminar

Northwest Fire Investigators Association
c/o W. Mitchell Atkinson, Secretary
411 Washington Street
Wenatchee, Washington 98801

(General Investigation Seminars, cont.)

Annual Seminar

Washington Chapter IAAI
c/o Ed Stokes, Secretary
15902 63 Avenue Court East
Puyallup, Washington 98373

Annual Wisconsin Arson Seminar

Wisconsin Chapter IAAI
c/o Oscar I. Beilke, Secretary
P.O. Box 172
New Holstein, Wisconsin 53061

Arson Investigation, Fall Seminar

Arson Investigation, Spring Seminar

Wyoming State Fire Marshal Office
Herschler Building, 1st Floor West
Cheyenne, Wyoming 82002

Fire Behavior, Chemistry

Fire Chemistry and Arson Investigation

Central Florida Fire Academy
2966 West Oak Ridge Road
Orlando, Florida 32809

Fire Behavior and Incident Investigation

Kirkwood Community College
6301 Kirkwood Boulevard Southwest
P.O. Box 2068
Cedar Rapids, Iowa 52406

Fire Behavior and Arson Awareness

New York Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

Fire Behavior and Arson Awareness

Suffolk County Arson Task Force
P.O. Box 127
Yaphank, New York 11980-0127

Fire Dynamics

University of Cincinnati
Open Learning Fire Service Program
220 Victory Parkway, ML # 103
Cincinnati, Ohio 45206

Fire Scene Photography

Annual Training Conference

International Fire Photographers Association
P.O. Box 8337
Rolling Meadows, Illinois 60008

Arson Photography Seminar

New Jersey State Fire College
6 Commerce Drive
Cranford, New Jersey 07016

Fire Scene Photography for the Fire Investigator

New York Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

Forensic Photography

Lakeland Community College
7700 Clocktower Drive
Mentor, Ohio 44060-7594

Fire Scene Photography

Ohio Fire Academy
8895 East Main Street
Reynoldsburg, Ohio 43068

Evidence Photography Seminars

Evidence Photographers International Council
600 Main Street
Honesdale, Pennsylvania 18431

Arson Photography Workshop

South Carolina Fire Academy
2920 Fire Academy Road
West Columbia, South Carolina 29072

Annual Utah Fire School: Fire Photography

Utah Valley Community College
800 West 1200 South
Orem, Utah 84058-5999

House Burns

House Burns for Arson Investigators

Gateway Technical College
109 South Spring Street
Burlington, Wisconsin 53105

Interviewing

Interviewing and Counseling Juvenile Firesetters

Rancho Santiago College
Fire Technology Department
1530 West 17th Street
Santa Ana, California 92706

Interviewing for the Fire Investigator

New York Department of State
Office of Fire Prevention and Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

Juvenile Firesetting

Annual Juvenile Firesetters Seminar

Arizona Fire and Burn Educators Association
State Juvenile Firesetter Task Force
Tucson Fire Department
P.O. Box 27210
Tucson, Arizona 85726-7210

Interviewing and Counseling Juvenile Firesetters

Rancho Santiago College
Fire Technology Department
1530 West 17th Street
Santa Ana, California 92706

Juvenile Firesetting Workshop: A Primer Creating a Juvenile Firesetter Intervention Program for your Community

Companion Skills Training

Annual Fire School: Juvenile Firesetter

Connecticut Commission on Fire Prevention and Control
294 Colony Street
Meridan, Connecticut 06450

Juvenile Firesetter Program (2 day seminar)

Juvenile Firesetter Program (1 day seminar)

Illinois Fire Inspector Association
North Maine Fire Protection District
9301 Potter Road
Des Plaines, Illinois 60016

Advanced Juvenile Firesetting

Juvenile Firesetter Seminar

Michigan Arson Prevention Committee
200 Buhl Building
Detroit, Michigan 48826

Juvenile Firesetting: Problem Assessment and Intervention

Suffolk County Arson Task Force
P.O. Box 127
Yaphank, New York 11980-0127

Juvenile Firesetters: Advanced Concepts

Dr. Sue White, Ph.D.
Department of Child Psychiatry
Metro Health Medical Center
2500 Metro Health Drive
Cleveland, Ohio 44109-1998

Juvenile Firesetters

Juvenile Fire Setters, Level II

Ohio Fire Academy
8895 East Main Street
Reynoldsburg, Ohio 43068

K-9 Detection

K-9 Accelerant Detection

New York State, Department of State
Office of Fire Prevention Control, Arson Bureau
162 Washington Avenue
Albany, New York 12231

Laboratory Analysis

Laboratory Examinations in Arson Matters (FBI)

Department of the Treasury, Bureau of Alcohol,
Tobacco and Firearms
Federal Law Enforcement Training Center
Glynco, Georgia 31524

Forensic Fire Science and Technology Laboratory Training Seminar

National Association of Fire Investigators
P.O. Box 957257
Hoffman Estates, Illinois 60195

Investigation of Gas and Electrical Appliances Fires Advanced Investigation

Barker and Herbert Analytical Labs, Inc.
207 Maine Street
New Haven, Indiana 46774

National Bomb Investigations Training Course

U.S. Postal Inspection Service
Division of Forensic and Technical Services
22433 Randolph Road
Dulles, Virginia 20104-1000

Legal Issues

Arson Investigation III

California Department of Forestry Academy
4501 Highway 104
Ione, California 95640

Investigation 2A: Criminal and Legal Procedures

California State Fire Marshal Office
Training Division
7171 Bowling Drive
Suite 600
Sacramento, California 95823

Fire Investigation 2A: Criminal and Legal Procedures

Crafton Hills College
11711 Sand Canyon Road
Yucapia, California 92399-1799

Fire Investigation 2A

San Diego Miramar College
10440 Black Mountain Road
San Diego, California 92126

Legal Issues of Fire Investigators

Central Florida Fire Academy
2966 West Oak Ridge Road
Orlando, Florida 32809

Legal Issues

Florida State Fire College
Bureau of Fire Standards and Training
11655 Northwest Gainesville Road
Ocala, Florida 32675-1330

Arson #3 Courtroom Procedures

Kentucky Tech, Region 5
Adult and Technical Education
505 University Drive
Elizabethtown, Kentucky 42701

Testifying in Court

Minnesota State Fire Marshal Division
285 Bigelow Building
450 North Syndicate Street
St. Paul, Minnesota 55104

Legal Aspects of Fire Investigation and Prevention

Stark Technical College
6200 Frank Road Northwest
Canton, Ohio 44720

Fire Investigation and Legal Problems

Hampton University
College of Continuing Education
Hampton, Virginia 23668

Criminal Law, Evidence and Procedure I Criminal Law, Evidence and Procedure II

Northern Virginia Community College
Annandale Campus
8333 Little River Turnpike
Annandale, Virginia 22003

Prevention and Investigation

Fire Prevention and Investigation

Tallahassee Community College
444 Appleyard Drive
Tallahassee, Florida 32304-2895

Fire Prevention/Inspection/Causes (NFPA 1001)

Meadowood Fire Training Center
P.O. Box 969
Keene, New Hampshire 03431

Fire Prevention Practices

Stark Technical College
6200 Frank Road Northwest
Canton, Ohio 44720

Fire Prevention I through VIII

Texas Engineering Extension Service
The Texas A&M University System
College Station, Texas 77843-8000

Related Sciences

Related Sciences of Fire Investigation

R. Schwarz and Associates, Ltd.
3413 Greenbriar Drive
Glenview, Illinois 60025

Ritualistic Rites and Arson

Ritualistic Rites and Arson Course
Texas Engineering Extension Service
The Texas A&M University System
College Station, Texas 77843-8000

Training Materials Development

Fire Investigation Training Materials Development

Technifire Services Company
108 Sunnybrook Trail
Signal Mountain, Tennessee 37377

Two Year Degree In Fire Investigation

Fire Investigation Technology Associate in Applied Science Degree

Tarrant County Junior College
Northwest Campus
4801 Marine Creek Parkway
Fort Worth, Texas 76179-3399

Fire Science Investigation Specialization

Northern Virginia Community College
Annandale Campus
8333 Little River Turnpike
Annandale, Virginia 22003

Two Year Degree in Fire Investigation

Edmonds Community College
20000 68 Avenue West
Lynnwood, Washington 98036

Vehicle Fires

Fire Investigation: Electrical, Vehicle, Explosions

Hughes Institute for Continuing Education
P.O. Box 30430
Mesa, Arizona 85275-0430

Vehicle Burn Seminar

R. Schwarz and Associates, Ltd.
3413 Greenbriar Drive
Glenview, Illinois 60025

Car Fires

Kansas State Fire Marshal Office
700 Southwest Jackson, Suite 600
Topeka, Kansas 66603-3714

Vehicle Fire Investigation

University of Kansas
Fire Service Training
Continuing Education Building
Lawrence, Kansas 66045-2624

Vehicle Fire/Theft Investigation School

Michigan State Police, Fire Marshal Division
7 150 Harris Drive
Lansing, Michigan 48913

AVCAM Training Seminar: Vehicle Arson

Anti-Vehicle Crime Association of MN (AVCAM)
P.O. Box 39262
Minneapolis, Minnesota 55439

Automobile Fire Investigation Seminar

New Jersey Chapter IAAI
c/o Edward Soper, Education Chair
1027 Hwy 33 East
Freehold, New Jersey 07728

Auto Fires

Wyoming Fire Academy
2500 Academy Court
Riverton, Wyoming 82501

Wildland Fires

Wildland Fire Cause and Origin Determination

Alabama Forestry Commission
513 Madison Avenue
Montgomery, Alabama 36130

Wildland Fire Investigation

College of Marin
Indian Valley Campus
Novato, California 94947

National Wildfire Investigations Training Program

Department of the Treasury, Bureau of Alcohol,
Tobacco and Firearms
Federal Law Enforcement Training Center
Glynco, Georgia 31524

Wildland Fire Cause and Determination

National Park Service
U.S. Department of Interior
Branch of Aviation and Fire Management
3056 Elder Street, Suite A
Boise, Idaho 83705

Wildland Fire

Montana Department of State Lands
2705 Spurgin Road
Missoula, Montana 59801

Intermediate Wildland Fire Cause Determination

Ochoco National Forest
PO Box 490
Oreneville, Oregon 97754

Wildland Fire Investigation

Wyoming Fire Academy
2500 Academy Court
Riverton, Wyoming 82501

Part 3 National Certification Programs in Fire Investigation and Related Fields, and Fire Service Accreditation Programs

For a definitive statement of minimum fire investigator job performance standards, see NFPA 1033: Professional Qualifications for Fire Investigator (latest version not available as this document went to press).

International Association of Arson Investigators Certified Fire Investigator Program

Purpose

The Certified Fire Investigator (CFI) Program of the International Association of Arson Investigators has the following objectives:

- Recognition of professional standards of achievement in fire investigation theory and practice by government and private fire investigators.
- Encouragement of continuing education and training in the field of fire investigation.
- Increased professional standing in the fire investigation field.
- Identification of the sources of professional knowledge for the theory and practice of fire investigation, related fields, and the laws and regulations governing or affecting fire investigation.

Goals

The International Association of Arson Investigators seeks to acknowledge demonstrated competence in all phases of fire investigation, as held by numerous individuals from many fields, both public and private. Alternative routes to this goal are provided by the awarding of points for accomplishments in education, training and experience as they relate to fire investigation. These point totals are subject to maximums in each of the areas, to assure substantial and adequate field experience as opposed to primarily academic theoretical background.

A test covering the various phases of fire investigation techniques and theory has been developed. An applicant must have achieved minimum levels of education, training and experience in fire investigation to be eligible for the examination. Recertification will be provided for by the applicant's demonstration of continuing education, training and field experience.

Eligibility Prerequisites

Membership in the International Association of Arson Investigators and/or participating chapter of the IAAI is not required for certification.

Certification is based on experience, training, and successful completion of the CFI examination. A minimum of 150 points, based on the application, is required to qualify to take the CFI examination.

Education

The highest level of education achieved must be noted on the application. Points for education vary from 10 for a high school graduate, G.E.D. or certificate of equivalence to 50 points for a doctoral degree in a field related to Fire Investigation. Other levels of education are listed on the application. A minimum of 10 points is required and a maximum of 50 points is allowed.

Degrees such as civil, mechanical, electrical and chemical engineering, as well as chemist and law enforcement degrees, will not be accepted unless a summary of the applicant's fire-related experience as it applies to those degrees accompanies the application.

Training

Points are earned for specialized training that the individual has received. The points vary from 1/4 point per hour of seminar attendance to 20 points for Certified Firefighter III. The remaining categories of training are listed on the application. A minimum of 20 points is required and a maximum of 90 points is allowed.

Experience

Points earned for experience vary from 1/2 point per year for a firefighter or patrolman to 15 points per year for direct, active supervision of two or more full-time fire investigators. The application contains other levels of experience for which points can be claimed. A minimum of 40 points is required for certification by examination eligibility.

To claim credit for full-time participation in any experience, you must have been assigned full-time duties as a fire investigator. Full-time is defined as 52 weeks per year or a minimum of 1500 hours per year, including vacation, sick leave, etc. Any time less than 52 weeks per year will be pro-rated at the discretion of the committee. Part-time investigator is defined as those investigators working less than 1500 hours per year in fire investigation and those investigators with other primary duties, such as building inspection, fire chief, firefighting, etc.

Fees

Nominal charges are made to support the cost of administration of the program.

Application Procedures

Application forms are available from:

International Association of Arson Investigators
Certified Fire Investigator Program
P.O. Box 91119
Louisville, KY 40291*

*The IAAI will move to St. Louis, Missouri, early in 1993. The new address was not yet available as this catalog went to press.

The completed application form must be submitted to the above address, with the required fee, at least 60 days before the examination. The application will be reviewed and, if in order, the applicant will be sent information concerning the examination.

The committee has the right to verify the items in the application and/or to interview the applicant.

A minimum of one test will be held each year by participating state chapters. The minimum passing grade is 70%. Candidates who fail the test may take one additional test at no additional fee.

All details pertaining to applications and results concerning certification will be handled on a confidential basis. Certificates will be awarded to successful candidates.

Certificates will be valid for a five-year period from date of issue.

The Written Examination

The certification examination shall be provided by the International Association of Arson Investigators. The examination shall be of the true/false and multiple choice style and should consist of at least 100 questions drawn from a question pool.

The subject categories on each examination must include the following:

Chemistry of Fire
Laboratory Evaluation of Fire Scene Evidence
Criminal and Civil Law Relating to Fire Investigation
Investigation of Fatal Fires
Investigation of Automotive Fires
Investigation of Explosions
Photography and Record Keeping
Motives of Firesetters
Insurance as it Relates to Fire Investigators
Interviewing
Determining Cause and Origin
Building Construction

The ICC reserves the option to evaluate other areas as deemed necessary; additions to the evaluation areas will be furnished to the applicant. The evaluation for IAAI-CFI will not include questions regarding state law.

The test is to be taken “closed book,” with no notes or aids allowed.

The results of each examination will be scored by the International Association of Arson Investigators.

Maintaining Certification

An important purpose of the Certified Fire Investigator Program is professional improvement and continuing education in Fire Investigation. A recertification program has been designed to encourage individuals to keep current with new developments. Recertification will be awarded upon the applicant’s documentation of a minimum 30 points, of which 10 must be in training. Effective May 15, 1996, a minimum of 50 points will be required, 20 of which must be from training. Proof of the obtained points must be submitted during the last six months of certification.

Certification may be suspended, revoked or refused by the Certification Committee for causes such as: fraud, misrepresentation, improper conduct, and/or felony conviction or any other activity that would lead a reasonable person to question the professional competency, honesty, integrity or ability of the certified fire investigator.

Administration

The Certified Fire Investigator Program is administered by the International Association of Arson Investigators.

The Certification Committee will consist of seven members, appointed by the President of the IAAI, who will serve terms of three years.

The Certification Committee will be responsible for the operation of the program. The Certification Committee will administer each examination.

Certification as a fire investigator by the International Association of Arson Investigators does not determine who shall engage in the investigation of fires, nor does it substitute for any licensing or registration required by law.

The name and/or logo of the International Association of Arson Investigators and the name and/or logo of any chapter of the International Association of Arson Investigators may not be used in any printed advertising.

National Association of Fire Investigators Certified Fire and Explosion Investigator Program

The Board of Directors of The National Association of Fire Investigators (NAFI) has long recognized the need for an accepted method and standard of evaluating the qualifications of individuals who are conducting fire, arson and explosion investigations. Those fire investigators who testify in court as “experts” have an equal need and interest

in establishing their credentials. Therefore, The National Certified Fire and Explosion Program was instituted at the August 11, 1983, NAFI board of directors meeting in Chicago.

The National Certification Program is designed to:

- Recognize qualified fire and explosion investigators.
- Serve as a national certification registry and clearinghouse for identifying qualified fire and explosion investigators.
- Provide an established system to compare the various qualifications of those engaged in fire and explosion investigation.
- Promote excellence in the training, education, and conduct of fire and explosion investigators.
- Provide a system by which equally qualified investigators, specializing in the various disciplines of fire and explosion investigation, will have immediate acceptance as “experts”.

The National Certification Registry

Through The National Certification Registry, NAFI responds to inquiries about the Certified Investigator from attorneys, courts, prospective clients, or other organizations. The National Registry confirms that the Certified Investigator has demonstrated his expertise by qualifications, education, experience, and written examination.

How The Program Works

Individual members of The National Association of Fire Investigators, who meet the minimum qualification standards, may make application to The National Certification Board.

The National Certification Board will then evaluate the applicant’s training, education, experience, and knowledge. If the applicant is approved as having met the minimum education and experience requirements, he or she will be eligible to take the written examination covering the various aspects of fire, arson and explosion investigation.

Upon satisfactory completion of the written examination, as graded by the National Certification Board, the Investigator will be certified. His or her certification will be registered in the National Certification Registry, and Certified Fire and Explosion Investigator (CFEI) credentials will be issued.

An applicant who fails to be certified upon his first application must wait a minimum of six (6) months before re-applying, during which time the applicant will have an opportunity to rectify any deficiency.

Minimum Qualifications

The applicant Investigator must be actively involved as a professional fire, arson, and explosion investigator.

He or she must be a current member in good standing of NAFI.

The applicant must have had formal training in fire, arson and explosion investigation by a recognized, competent training organization, such as accredited colleges or universities; federal, state or local government sponsored programs; a nationally recognized fire, police, insurance, or fire investigation organization; approved private fire investigation schools; or NAFI sponsored seminars. This formal training may be supplemented or replaced in part by significant actual on-scene fire or explosion investigation experience,

The applicant must have personally conducted a minimum number of actual, on-scene fire or explosion investigations sufficient in the judgement of the National Certification Board to demonstrate proper application and use of the principles of effective fire and explosion investigation.

The applicant must be of good character and comply with the constitution, rules, by-laws, and Code of Ethics of The National Association of Fire Investigators.

The applicant must be able to demonstrate expertise in the basic body of knowledge necessary for effective fire, arson and explosion investigation, and the practical application of the knowledge.

The Written Examination

Once the investigator's background, as listed in the application, is approved by the National Certification Board, the written examination will be administered either by correspondence or as a proctored examination.

If the correspondence examination is used, the applicant must complete the examination and return it to the NAFI offices postmarked within fourteen (14) working days of the date the applicant receives it.

The examination must be completed by the investigator, alone, without any aid or counsel from anyone, except that he may use reference material.

The investigator may use any published reference material or text to assist him in completing the examination. The examination is based upon textbooks and other publications commonly available in the field. A bibliography of suggested reference works will be provided with the examination.

When the completed examination is returned to the NAFI offices, it will be graded by The National Certification Board.

The applicant will be informed of his examination grade and performance usually within two weeks.

The examination consists of questions covering information in the following topic areas:

- Basic Fire and Explosion Investigation Core Knowledge.
- General Fire and Explosion Investigation Techniques.
- Fuels and Ignition Sources.
- Chemistry, Physics and Behavior of Fires and Explosions.
- Law, Testifying and Court Procedure as it pertains to Fire Investigations. (This section may be waived by the Board in the case of applicants from countries other than the United States.)
- Professional Preference Section. The Investigator must answer all five (5) essay questions in any one of the Professional Preference categories he selects, These categories are: Fire Department Operations; Forensic Engineering and Science; Law Enforcement Procedures; Insurance and Subrogation; Products and Liability; Fire Safety, Prevention and Codes.

The minimum passing grade on either the correspondence or proctored examination is 75%.

Fees and Charges

Application Fee

An initial, non-refundable application fee of \$50.00 is required to accompany each completed application form. This fee will be used to help defray the costs of application processing, testing, and background investigation of the applicant.

The applicant should carefully evaluate the minimum requirements for the program, as the application fee is non-refundable and application may be made only once in any six-month period. Each re-application requires a separate application fee.

Certification Fee

Upon approval of the applicant by the National Certification Board and satisfactory completion of the written examination, an additional, one-time Certification Fee of \$50.00 is required. Thereafter, a \$10.00 dues surcharge will be added to the Certified Investigator's annual NAFI dues. This fee will be used to help defray the costs of certification processing, record-keeping, administering and maintaining The National Certification Registry, and Certified Fire and Explosion Investigator credentials.

Certified Fire and Explosion Investigator Credentials

Certified Fire and Explosion Investigator credentials include: an 8-1/2"X11" wall certificate, a wallet certification I.D. card, one 4" embroidered emblem, and a NAFI Certified decal. Additional emblems will be furnished upon request. Decals are \$2.00 and embroidered emblems are \$5.00.

The Certified Fire and Explosion Investigator embossing seal is available upon request. The seal, can be used to emboss letters, reports, photographs, diagrams, etc. It contains the Certified Investigator's name and certification registration number. Price \$25.00.

Each Certified Fire and Explosion Investigator will receive a free subscription to the NAFI CFEI Bulletin. The CFEI Bulletin is published periodically by the National Certification Board and contains news and announcements of interest to Certified Investigators.

Application forms are available from:

The National Certification Board
National Association of Fire Investigators
Post Office Box 957257
Hoffman Estates, Illinois 60195

National Association of Fire Investigators Certified Fire Investigation Instructor Program

The Board of Directors of The National Association of Fire Investigators, a non-profit multi-national organization of fire investigation professionals, created the national Certification Board in 1982. With the proliferation of fire investigation professionals during the 1960's and 1970's, it became apparent that a need had arisen for some means of identifying those who were truly qualified. This led to the inception of NAFI's Certification Programs and the national Certification Registry.

With the accompanying increase in fire investigation training programs, the national Certification Board identified a need for recognizing qualified instructors. The Certified Fire Investigation Instructor Program meets that need.

The Certified Fire Investigation Instructor Program is designed to:

- Recognize fully qualified fire investigation instructors.
- Serve as a national certification registry and clearing house for identifying qualified fire investigation instructors.
- Provide an established system to compare the various qualifications of those engaged in fire investigation instructions.
- Promote excellence in the training, education, and conduct of fire investigation instructors.
- Provide a system by which equally qualified fire investigation instructors, specializing in the various disciplines of fire investigation, will be recognized as having the ability to deliver fire investigation instructional programs.

How the Program Works

The program provides instruction in the necessary skills and an evaluation of those who are seeking to train in the fire investigation profession.

The one day instructional program is coupled with NAFI sponsored fire investigation training seminars. The student instructor, therefore, receives valuable schooling in the art and science of fire investigation and teaching methods. The course curriculum includes; Theory and Methodology of Education; Curriculum and Lesson Planning; Testing and Student Evaluation Methods; Classroom Teaching Techniques; Planning and Preparation of Demonstration Burns, and Fire Investigation Technology.

A comprehensive written examination concludes the instructor training program. The student instructors then receive valuable teaching experience by participating with experienced NAFI certified fire investigation instructors in the teaching of an actual NAFI sponsored fire investigation seminar.

About the Instructors

The program was designed and is administered by internationally recognized experts, each holding upper level degrees in education or the various fire investigation and analysis disciplines. The program is taught by active, full-time university level educators and NAFI Certified Fire Investigation Instructors.

Minimum Qualifications

The program is open to all Certified Fire and Explosion Investigators (CFEI's). Students who have not yet received the Certified Fire and Explosion Investigator designation, may take both programs simultaneously.

Information available from:

The National Certification Board
National Association of Fire Investigators
P.O. Box 957257
Hoffman Estates, IL 60195

Evidence photographers International Council (EPIC) Certification program

The EPIC Board of Management, at its July, 1985 annual meeting and seminar in New York City, approved a certification program for evidence photographers. The stringent requirements of the program are designed to insure that evidence photographers, whether specializing in civil or criminal work, maintain a level of competence and professionalism that will serve as the international standard in the field,

Requirements

The following shall be required of all persons submitting applications for EPIC certification:

Each applicant must be a member in good standing of the Evidence Photographers International Council.

The applicant must submit at least one article or research paper for publication in the Journal of Evidence Photography with supporting photographs. The article or research paper must be accepted for publication and may be published at a later date.

The applicant must submit at least seven cases with proper narrative summary or investigative report to support each case history. Eight by ten inch prints shall be submitted for review in the same manner in which the applicant would present a completed report to his employer or agency or to a client.

At least seven different photographic assignments from one of two categories, civil or law enforcement evidence photography, should be presented for review. The minimum number of prints for review is 30

The board will accept any type of portfolio/assignment pertaining to civil or law enforcement photography including video.

The Board of Management of EPIC shall provide a three-member panel of judges who will conduct either a written and/or oral examination for certification.

The Review Panel will meet at the direction of the President who will oversee and be in charge of the certification program.

During the certification process, the Review Panel will direct certain questions, orally or in writing, in the specialty field (civil or law enforcement) requested by the applicant. Certification, should it be recommended by the Review Panel, will be confirmed by the President.

A certification fee of \$150 per member is required in advance for the panel's review of material, interview and/or written examination. Upon completion and acceptance, no further payment will be required so long as the certified member retains active membership and complies with the education requirements outlined in No. 10. In the event that a candidate for certification is not accepted at a review, \$100 will be refunded and the candidate will be allowed to resubmit for the next Panel Review.

The certified member will receive a certificate, EPIC logo for advertisement, a press release from EPIC headquarters, and a photograph of the member receiving certification, if desired.

Continuing certification shall be contingent upon maintenance of active annual membership and participation in at least one continuing education seminar given by EPIC in each 24 month period subsequent to certification.

A research paper advancing knowledge in the field of evidence photography or an article of general interest to evidence photography, submitted and accepted for publication in The Journal of Evidence Photography, may be submitted for seminar participation.

Certification Covers Two Categories

EPIC members applying for board certification may apply in one of two categories - civil evidence photography or law enforcement photography. Certification requirements mandate that case portfolios submitted for review include the following:

Civil Evidence Certification

Personal injury case (studio visit or on location at hospital)
Intersection photos including all measurements, directions and correct viewing distance on all prints
Vehicle damage, including overall detail and interior views
Night vision
Slip/trip and fall (stairway and/or pothole)
Products failure and/or machine industrial accident
Aerial evidence, vertical and/or oblique
Video - day in the life of, experiment, deposition or a session with the physical therapist (review format for showing shall be 1/2 inch VHS)
Motion picture demonstrating any of the above or other related subject showing basic cinematography techniques on 8 mm or 16 mm film
Copy work-submission of original, copy negatives produced and prints of the following:
 A. a Polaroid produced 8 x 10 in color
 B. a page of graphite pencil writing on a ruled notebook sheet printed 8 x 10
 C. a watermark copied and printed 8 x 10
Painting with light technique
Arson

Law Enforcement

Intersection vehicle accident scene taken during the day - all measurements and correct viewing distance for each print.
Surveillance photos/stakeout with telephoto lens.
Night vision recreation.
Vehicle accident scene at night with measurements (must show technique of painting with light).
Copy of fingerprints on the following, enlarged to 8 x 10 each:
 A. inside of window
 B. a rolled print

- C. print developed on a black leather shoe
 - D. print from a shiny metal surface
- Videotape showing, explaining or documenting a crime scene.
- Copy work - submission of originals of A and B plus all copy negatives and enlarged 8 x 10 prints of each of the following:
- A. a Polaroid mug shot printed as an 8 x 10 in color.
 - B. a watermark copied and printed to 8 x 10 size.
 - C. serial number on a pistol with blued steel
 - D. a bullet rifling or toolmark comparison
- Personal injuries of a person to document their physical condition at time of arrest
- Arson and/or fire photography
- Autopsy photos to show cause of death
- Crime scene - homicide, robbery scene, etc
- Photos documenting impressions of tires, tool marks, indented writing, shoe impressions, etc.

For more information contact:

Evidence Photographers International Council
600 Main Street
Honesdale, Pennsylvania 18431

American Board of Criminalistics (ABC) Certification Program

The American Board of Criminalistics is a corporation formed:

- To establish professional acceptable levels of knowledge, skills, and abilities for the practice of the science of criminalistics.
- To define a mechanism to achieve professional acceptable levels of knowledge, skills and abilities.
- To promote growth within the profession of criminalistics.
- To encourage and promote adherence to high standards of ethics, conduct, and professional practice in criminalistics.

The seven U.S. Regional Forensic Associations, the American Academy of Forensic Sciences Criminalistics Section, the American Society of Crime Laboratory Directors (ASCLD), the Canadian Society of Forensic Science and the Forensic Science Society (UK) are represented on the ABC Board/Examinations Committee.

What is Certification?

Certification sets clear. professional. education. training and knowledge requirements for laboratory examiners working in key forensic areas -

- Fire Debris Analysis
- Drug Identification
- Forensic Biology (including DNA)
- Trace Evidence - Hairs; Fibers; Paints/Polymers

It is a testing program with a general forensic knowledge and specialty examinations. Regular proficiency testing in the examiner's specialty area(s) is required to demonstrate the ability to handle routine casework.

It is an education program. Continuing Education/Professional Development are required for recertification every 5 years.

Requirements for Certification

General qualifications:

- Applicant must agree to abide by the ABC Rules of Professional Conduct,
- Applicant must submit two references who can attest to the applicant's qualifications.

Each applicant's qualifications will be reviewed and must be approved by the ABC Credentials Committee.

Educational qualifications

Applicants must possess an earned baccalaureate degree in a natural science or an appropriately related field.

Professional experience qualifications

Applicants must have a minimum of two years experience in a forensic science and be employed in a professional capacity engaged in the examination of physical evidence, interpretation of data, and/or technical consultation for litigation purposes.

Certification(s) awarded.

Diplomate certificates will be awarded to those who successfully complete the general forensic knowledge examination.

Fellow certificates will be awarded to persons who successfully complete both the general forensic knowledge examination and at least one specialty examination, and meet proficiency testing standards. The fellow certificate will list the area(s) of specialization

Examinations

For Diplomate and Fellow: in addition to meeting the requirements above, applicants must pass a comprehensive written General Forensic Knowledge Exam, which includes the following:

- Basic philosophical and scientific concepts;
- Basic questions on techniques;
- Ethics;
- Applicable areas of Civil and Criminal Law

For Fellow only - successful completion of specialty examination(s) and periodic proficiency exams in the specialty area(s).

Request for Information

Certification is but one of the avenues for improving the professional status of those conducting analysis in criminalistics. For more information, contact:

American Board of Criminalistics
Certification Information & Applications
P.O. Box 209
Greenlawn, NY 11740

National Board on Fire Service Professional Qualifications: Operational Procedures for National Board on Fire Service Professional Qualifications Accreditation Process, adopted
by The Board of Directors September 30, 1991.

The National Professional Qualifications Board (NPQB) shall, under article VIII of the National Board on Fire Service Professional Qualifications by-laws, function as a committee of the Board of Directors National Board on Fire Service Professional Qualifications in granting accreditation of agencies requesting recognition from the National Board on Fire Service Professional Qualifications as certifying agencies for the fire service and related fields.

Purpose

Establish an internationally recognized means of acknowledging professional achievement in the fire service and related fields.

Reciprocity among certifying agencies is recognized for accredited members of the National Board on Fire Service Professional Qualifications System.

The primary objective of the certification program is to serve the career development needs of uniform members of public fire departments, both career and volunteer. Other persons and organizations with fire protection interest may also be considered for participation.

General Provisions

The NPQB will, if requested, subject to policies established by the Board of Directors of the National Board on Fire Service Professional Qualifications, accredit an agency to conduct certification in the National Professional Qualifications System.

The NPQB shall immediately notify the Board of Directors in writing of any accreditation.

The National Board on Fire Service Professional Qualifications recommends that, wherever possible, certification within a state be administered through a single state-wide agency.

In a state where an appropriate agency is not in existence or is unable or unwilling to provide certification in accordance with policies of the National Board on Fire Service Professional Qualifications, the NPQB may consider applications for accreditation from local agencies who can demonstrate that they are willing and able to conform to the policies of the National Board on Fire Service Professional Qualifications.

The NPQB shall notify appropriate state agencies whenever an application from a local agency within that state is being considered.

The NPQB may also accredit as a certifying agency a national organization whose constituency and activities extend, on a regular basis, beyond the boundaries of a single state.

Agencies shall be re-accredited annually. Accredited agencies shall, upon request by the NPQB, submit documentation of their activities for review by the NPQB in a form and including such content as directed by the NPQB. Failure to provide such documentation shall be cause for withdrawal of accreditation. On-site review of the program shall take place at intervals deemed appropriate by the NPQB, but in no case shall such on-site review interval exceed five (5) years.

The NPQB shall administer the program to allow maximum flexibility for the certifying agencies in meeting the policies of the National Board on Fire Service Professional Qualifications accreditation program.

Accredited agencies may delegate any or all of its certification authority to local jurisdictions or other qualified agencies, e.g., community colleges, universities, etc. The accredited agency shall be held accountable to ensure that such agencies certify in full compliance with National Board on Fire Service Professional Qualifications criteria.

Application for Accreditation

In order to conduct a certification program accredited under the National Professional Qualifications System, an agency shall submit an application in a form required by the NPQB and will be expected to provide the NPQB with evidence of compliance with the criteria specified herein.

Requests for application must be in writing and the agency shall state under which category (State, Local or National) the application is submitted. Documentation of appropriate laws, agreements, agency table of organization, agency purpose and other claims of eligibility shall be included.

The NPQB shall conduct an investigation to ensure that the applicant meets in full the criteria required for an Accredited Agency.

Accreditation Criteria

Agencies applying for accreditation shall be required to document and demonstrate, upon request by the NPQB, that the following criteria will be maintained at all times;

Uniform testing and grading procedures conducted not less than annually at locations, times and at a cost appropriate to meet the needs of the certifying agency.

Testing procedures which uniformly and consistently measure the performance of candidates for certification only in relation to those skills, abilities and knowledge consistent with the requirements of the applicable standard.

Certification procedures which are not discriminatory and in accord with the Equal Employment Opportunity Act of 1972.

Procedures which ensure that the applying agency is responsive to the views and opinions of groups affected by their certification program.

The certification process is available equally to all persons served by the agency applying for accreditation and that adequate prior notice of all examinations and tests are provided to all interested parties.

Procedures that ensure complete impartiality, confidentiality and are safeguarded against any misuse or abuse.

Facilities and equipment that are adequate for the full testing of the performance objectives required.

Procedures that ensure adequate supervision to maintain a safe environment during certification testing.

Appropriately qualified examiners and test evaluators who have not been directly involved in the training of the candidate.

Procedures that ensure the NFPA Fire Service Professional Qualifications Standards or other standards approved by the National Board on Fire Service Professional Qualifications are the basis upon which certification testing is conducted.

Accredited agencies shall maintain lists of the results of testing for all certification candidates under their auspices.

Accredited agencies shall, when requested by the NPQB, provide representative samples of materials, instructions and test procedures.

Withdrawal of Accreditation

The NPQB may withdraw accreditation from an agency for cause.

Prior to withdrawal or denial of accreditation, the NPQB shall cause an agency to receive written notice of such intent to withdraw/deny accreditation and the reasons for such withdrawal/denial not less than 30 days prior to such withdrawal/denial.

For more information contact:

National Board on Fire Service Professional Qualifications
P.O. Box 492
Quincy, MA 02269

International Fire Service Accreditation Congress, Oklahoma State University

Mission Statement and Objectives

Mission Statement: To measure the level of professionalism of the fire service through the accreditation of those entities who administer standardized written and/or manipulative examinations of the required knowledge and skills to meet nationally recognized professional qualification standards.

The objectives of the Congress are to:

- consider policy statements and operational guidelines as submitted by the Board of Governors;
- inform members of the fire service regarding the system of accreditation;
- develop an awareness among state, provincial, territorial, and federal governments regarding the accreditation system
- identify and provide accreditation services to a single entity in each state, province, territory, and federal government entities who request said services:
- apply, to every extent possible, the professional qualifications of the National Fire Protection Association for professional development in both career and volunteer fire service personnel as a foundation for both certification and international accreditation:
- utilize all evaluating systems available to ensure certification is completed on a valid and credible basis; and ensure nondiscriminatory certification processes.

Accreditation

Applications for accreditation shall be submitted along with appropriate documentation to the Administrative Office. The Administration will conduct an initial review for compliance with the criteria for accreditation and inform the applicant of its findings. Applicants will then authorize the scheduling of a site visit.

The Administration shall schedule and facilitate all site visits.

The site team shall examine all aspects of the applicant certification system in relation to the criteria for accreditation. Upon completion of the examination, the site team shall prepare a complete report that includes (but is not limited to):

- The application
- Site team checklist
- Narrative report of findings
- A recommendation to:
 - Accredit applicant program or;
 - Accredit some programs or;
 - Withhold accreditation
 - Any recommendations that are in order for the applicant

The report shall be mailed to the Board of Governors within thirty(30) days of the site visit.

Accredited entities may add certification levels to their accreditation status by submitting an application and appropriate documentation that is compliant with the criteria for accreditation. The Administration shall review their application promptly and approve the additional levels for accreditation if compliance is achieved. If the application is not approved, the Administration shall promptly report deficiencies to the applicant.

In states, provinces, territories, and federal jurisdictions where no interest is shown to participate in the Accreditation Congress by those entities, local jurisdictions may apply. It is clearly understood that at such time as the state, province, territory, or federal agency does make application and is approved, the local jurisdiction will no longer be recognized as a member of IFSAC.

An accredited entity may delegate any or all of its certification authority to a local jurisdiction or other qualified agency; e.g., community colleges, universities, etc. Authority to conduct certification in the name of the accredited entity shall not be given until the accredited entity is assured that the local jurisdiction or other agency has and will continue to comply with all required International Fire Service Accreditation Congressional Procedures. Whenever an accredited entity delegates any part of its certification authority, it shall notify the Administrative Office of the Congress.

Any entity presently active and accredited under the "Procedures and Criteria for Accreditation and Certification of the National Professional Qualifications Board (NPQB)" may continue accreditation under the jurisdiction of IFSAC.

A site visit, as soon as is practical, to the previously accredited entity shall be required to evaluate current system procedures.

The continuation of accreditation will only apply to those fire service levels originally authorized by the NPQB prior to February 1991.

Reaccreditation

Reaccreditation shall be required on a five (5) year basis, The five (5) year period shall begin at the time of the initial accreditation received by the entity.

Appeal Process

The Congress reserves the right to grant, deny, or withdraw the accreditation. The Congress shall give to the entity a written notice of intent to deny or withdraw the accreditation and the reasons therefore. Upon receipt of the intent to withdraw accreditation, the affected entity has thirty (30) days to respond. Withdrawal of accreditation requires a two-thirds vote of the Congress.

Purpose

These criteria are designed for application by the Congress in accrediting entities which make application for said accreditation. Information provided by the applicants and gathered by site visitation teams will be 'utilized by the Congress in determining compliance with these criteria.

Empowerment

An accredited entity shall do one (1) of the following:

- Show evidence of a legal act, legislation, resolution, or statute from a state, provincial, territorial, or national government authorizing that entity to certify the professional competence of fire service personnel; or
- Show significant evidence of support for their accreditation as a certifying entity from within their constituency.

Performance Criteria

An accredited entity shall certify personnel to the current edition of National Fire Protection Association Professional Qualifications Standards or other standards adopted by the Congress. Exceptions are:

- An accredited entity may certify to criteria that are more stringent than those referenced above: or
- Accredited entities may continue to certify to previous editions of the NFPA Professional Qualifications Standards for a period of three (3) calendar years from the official date of adoption of the particular NFPA standard.

Availability of Certification

An accredited entity shall make all testing and certifying services available to all of its constituents without regard to race, sex, or ethnic origin.

An accredited entity shall make all testing and certifying services available to all fire service personnel.

An accredited entity shall have in place a policy relating to the release of test scores.

An accredited entity shall have in place a system that allows access to testing for all eligible parties on a regular basis. The system shall include a methodology for scheduling and administering testing to the preponderance of the constituency.

An accredited entity may delegate its certifying authority only after informing the Congress Administration and under the following circumstances:

- The delegated certification authority shall be conducted under the same procedures; criteria, and standards as those used by the accredited entity;
- The accredited entity delegating its authority shall be responsible for compliance with IFSAC criteria; and
- An accredited entity shall not delegate its certifying authority to another entity that has a broader geographical service area in terms of constituency.

Implementation of Certification Programs

Accredited entities shall offer examinations for any level for which certification is offered. Examinations shall be subject to the following conditions:

- Manipulative skills objectives shall be examined through a process of practical testing;
 - Knowledge objectives shall be examined through objectively graded examination(s); and
 - Knowledge examinations shall be graded with a predetermined grade level denoting the pass level.
- Practical examinations shall be graded on a pass/fail basis.

Accredited entities shall establish and publish the prerequisites required to take examinations at the various certification levels.

Accredited entities shall have written procedures that govern their testing processes in relation to the following:

Proctor(s) shall not be the same person(s) who instructs a given prerequisite course of instruction, unless all of the following conditions are met:

- The accredited entity shall have approved the examination process in advance;
- The accredited entity shall have an audit procedure in place to ensure testing session credibility; and
- The proctor(s) shall have signed an agreement acknowledging their intentions to comply with the testing procedures of the accredited entity or shall have been certified by the accrediting entity as proctor(s).

The accredited entity shall dismiss from the testing process any proctor who fails to abide by their testing procedures.

Accredited entities shall provide the date, time, and location of any testing process upon receipt of a request for such information from the IFSAC Administrative Office

Accredited entities shall permit a representative designated by the IFSAC Board of Governors to observe any testing process upon receiving notice of intent to observe the test at least forty-eight (48) hours prior to the test.

Record Keeping and Test Bank Management

Accredited entities shall collect the following data and maintain it for an appropriate amount of time:

- Names of candidates tested;
- Social Security number or equivalent;
- Certification level records; and
- IFSAC serial number.

Accredited entities shall make available to representatives designated by the IFSAC Board of Governors their test questions for all levels. The designated Congress representatives shall review the questions in the offices of the accredited entity only, and shall not copy or duplicate the questions in any way.

Accredited entities shall maintain a test item bank for all levels of certification testing. The test bank shall be sufficiently large to offer several different versions of the same test instrument.

Accredited entities shall have written procedures for the following:

- Referencing all test items to the criteria used by that entity; and
- Analyze items for validity, reliability and disparate impact.

Appeal Process

Accredited entities shall have a written procedure to allow participants in their certification system to appeal certification decisions.

Testing Personnel

Accredited entities shall have a written policy which addresses the impact of accreditation. The policy shall affirm that accreditation shall not affect the current certification status of any individual.

Accredited entities shall have a written policy that specifies how persons previously certified or holding a position will be allowed to participate in the accreditation system. The policy shall address this matter in one of the following ways:

- Personnel shall be granted an equivalent certification upon request; or
- Personnel shall be examined to determine if they meet the certification requirements.

Reciprocity.

An accredited entity shall agree to examine the certification credentials of individuals certified by other accredited entities to determine which level of certification, if any, is applicable.

For more information, contact:

- International Fire Service Accreditation Congress
- Oklahoma State University
- Fire Publications Building
- Stillwater, OK 74078-0118
- Phone: 405-744-8303 Fax: 405-744-8204

Part 4 Bibliography of Fire/Arson Literature Available in the United States

BOOKS

- Arson: The complete investigator's manual.* Boulder, CO: Paladin Press, 1990.
- Arson, for insurance and protest, a bibliography, 1965-1977.* Monticello, IL: Council of Planning Librarians, 1978.
- Arson training and prosecution manual.* Chicago: The State of Illinois, 1990.
- Firefighter's responsibility in arson detection.* Boston, MA: National Fire Protection Association, 1971.
- Fire protection handbook.* Quincy, MA: National Fire Protection Association, 1986.
- Abrams, S. *The complete polygraph handbook.* Lexington, MA: DC. Heath, 1989.
- Abt Associates. *Arson investigation and prosecution: A study of four major American cities.* Washington, DC: United States Department of Justice/National Institute of Justice, 1984.
- Abt Associates. *Arson prevention and control: Program model.* Washington, DC: United States Law Enforcement Assistance Administration, 1980.
- Abt Associates, Inc. *Arson prosecution: Issues and strategies.* Washington, DC: US Fire Administration, 1988.
- Aetna Life and Casualty. Arson and Fraud Unit. *Arson: Activities of the arson/fraud unit, June 1, 1979 to May 31, 1980.* Aetna Life and Casualty Arson and Fraud Unit, 1981.
- Aetna Life and Casualty, Federal Emergency Management Agency, International Association of Arson Investigators. *Anti-arson resource and action guide: A guidebook for local government officials.* Washington, DC: Public Technology, 1979.
- Aetna Life and Casualty Company, United States Fire Administration, Urban Consortium for Technology. *War on arson-how to win: Anti arson resource and action guide.* Washington, DC: Public Technology, 1980.
- All-Industry Research Advisory Council. *Arson incidence claim study.* Bethesda, MD: All-Industry Research Advisory Council, 1982.
- Allstate Insurance Company. *Put the heat on the arsonist: Program guideline for community action.* Northbrook, IL: Allstate Insurance Company, 1983.
- Allstate Insurance Company. Corporate Relations Department. *Put the heat on the arsonist: Program guideline for the U.S. Jaycees.* Northbrook, IL: Corporate Relations Department, 1978.
- American Bar Association. *Arson for profit: The insurer's defense.* Chicago: American Bar Association, 1981.
- American Bar Association. Criminal Justice Section. *Guidelines for the issuance of search warrants.* Chicago: American Bar Association, 1990.
- American Bar Association, Victim Witness Assistance Project. *Arson victims: Suggestions for a system response.* Washington, DC: American Bar Association, 1984.
- American Bar Association. Young Lawyers Division. *The second national institute on arson.* Washington, DC: American Bar Association, 1982.
- American Bar Association. Young Lawyers Division. Arson Committee, United States Fire Administration. *Arson legislation reference manual.* Chicago: American Bar Association, 1983.
- American Insurance Association. *Could it be arson? How can you tell? A guide for claim representatives handling fire claims,* New York: American Insurance Association, 1976.
- American Insurance Association. Property Claim Services. *Fire-arson seminar for the field adjuster.* New York: American Insurance Association, 1976.
- American Insurance Association; Factory Mutual. *Arson-fraud workshop notebook.* N.p., n.d.
- American Law Institute. *Model penal code and commentaries, part two, definition of specific crimes.* Philadelphia, PA: American Law Institute, 1980.
- Ansley, N., M. Garwood. *Accuracy and utility of polygraphy testing.* Washington, DC: United States Department of Defense, n.d.
- Army. Missile and Munitions Center and School. *Arson by electronics.* Redstone Arsenal, AL: Missile and Munitions Center and School, 1971.
- Barracato, J.S. *Arson: The realities of a national challenge.* Hartford, CT: Aetna Life and Casualty, Arson and Fraud Unit, 1983.
- Barracato, J. *Burning: A guide to fire investigation.* Hartford, CT: Aetna Casualty and Surety Company, 1986.
- Barracato, J. *Fire: Is it arson.* Hartford, CT: Aetna Life and Casualty Co., 1979.
- Barracato, J.S. *Vehicle fires.* Hartford, CT: Aetna Life and Casualty, 1983.

- Barracato, J., P. Michelmore. Arson. New York: Norton, 1976.
- Bates, E.B. *Elements of fire and arson investigation*, Santa Cruz, CA: Davis, 1975.
- Bates, R.B. *The fire scene investigator's guide to report writing*. Salinas, CA: Bates Academy of Scientific Investigation, 1986.
- Battelle Memorial Institute. *An arson bibliography: Current trends in arson control*. Battelle Memorial Institute, n.d.
- Battelle. *Fire service vocabulary training handbook*. Columbus, OH: Battelle Memorial Institute. Center for Improved Education, 1975.
- Battelle Memorial Institute, Human Affairs Research Centers. *Neighborhood based arson control, collected papers*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1985.
- Battelle Memorial Institute/Insurance Committee for Arson Control. Arson: *Ten years later*. Columbus, OH: Battelle, 1986.
- Battle, B.P. *Arson: Detection and investigation*. New York: Arco Publishing Co., 1978.
- Battle, B.P., P.B. Weston. *Arson: A handbook of detection and investigation*. New York: Greenberg, 1954.
- Baxi, H.S. *Arson in Newark: A study in prediction and patterns*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1982.
- Bennett, W.W. *Investigating arson*. Springfield, IL: Charles C. Thomas, 1984.
- Bennett, W.W., K.M. Hess, *Investigating arson*. Springfield, IL: Thomas, 1984.
- Benson, B.E. *Fire in Kansas*, 1980. N.p. 1981.
- Benton, J. *Anti-arson training program project evaluation and final report*. N.p. 1981.
- Berkey, M.L., W.S. Wooden. *Children and arson: America's middle class nightmare*. New York: Plenum, 1984.
- Berkol, A. *Sprinklers control arsonfire in rack-storage warehouse-Mt. Prospect, Illinois*. Arlington, VA: TriData, n.d.
- Berry, D.J. *Fire litigation handbook*. Quincy, MA: National Fire Protection Association, 1984.
- Bertrand, A.L. *Attitudinal patterns prevalent in a forest area with high incendiarism*. Baton Rouge, LA: Louisiana State University, 1970.
- Bielen, R.P. *Methodology for the application of analytical techniques to the analysis of fires*. Worchester, MA: Worchester Polytechnic Institute, 1983.
- Bolger, D. *Does someone want to burn your building down: A handbook for tenants and community organizers on how to protect themselves and their community against arson-for-profit*. Boston, MA: Jamaica Plain Arson Prevention Action Council, 1988.
- Bond, H. *Fire and the air war: A compilation of expert observations on fires of the war set by incendiaries*. Boston: National Fire Protection Association International, 1946.
- Borg, N., L. David. *Arson: A multi-dimensional problem*. New York: New York City Fire Department, 1983.
- Boudreau, J.F. *Arson and arson investigation: Survey and assessment*. Washington, DC: US Law Enforcement Assistance Administration, 1977.
- Boudreau, J.F., Q.Y. Kwan, W.E. Faragher, G.C. Denault. *Nature and magnitude of arson LOS Angeles: Aerospace Corp.*, 1983.
- Boudreau, J.F., Q.Y. Kwan, W.E. Faragher, G.C. Denault. *Social and economic consequences of residential fires*. MA: Lexington Books, MA, 1983.
- Boudreau, J.F., Q.Y. Kwan, W.E. Faragher, G.C. Denault. *Survey and assessment of arson and arson investigation: Equipment systems improvement program*. Rockville, MD: Superintendent of Documents GPO, 1976.
- Bouquard, T.J. *Arson investigation: The step-by-step procedure*. Springfield, IL: Thomas, 1983.
- Brace, T.R. *An analysis of arson in a socio-economic framework: Revisited: 1976-78*. Seattle, WA; Arson Alarm Foundation, 1980.
- Brannigan, F.L., ed. *Fire investigation handbook*. Washington, DC: National Bureau of Standards, 1980.
- Brannon, J.G., M. Crowell. *Arrest warrant forms: Homicide, rape, assault with intent to rape, kidnapping, arson, burning offenses*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- Brizzell, J.P. Cause of fire: *Aluminum wiring. What fire investigators should know about aluminum wire connectors as possible fire causes*. Albany, NY: New York State Office of Fire Prevention and Control, 1983.
- Brodie, T. *Bombs and bombings: A handbook to detection, disposal and investigation for police and fire departments*. Springfield, IL: Charles C. Thomas Pub. Co., 1973.

- Brodie, T., R. Hendel. *Bombs, bombings and bomb disposal guide*. Santa Cruz, CA: Davis Publishing Co., n.d.
- Brodie, T.G. *The MTI bombs familiarization and bomb scare planning workbook*. Schiller Park, IL: Motorola Teleprograms, 1973.
- Broome County. Bureau of Fire Investigation. *Fire investigation: Policies and procedures manual*. Binghamton, NY: Broome County Bureau of Fire Investigation, 1984.
- Broward County, FL. Juvenile Fire Setter Task Force. *Arson: Not just juvenile mischief*. Hollywood, FL: Broward County, FL Juvenile Fire Setter Task Force, 1982.
- Brown, J.E. *Hydrocarbon vapor standards for performance evaluation of combustible gas detectors*. Washington, DC.: National Bureau of Standards, 1981.
- Brown, J.E. *NIJ standard for portable organic vapor detectors*. Rockville, MD: National Institute of Justice/ National Criminal Justice Reference Service Microfiche Program, 1984.
- Brown, J.F., K.S. Obenski. *Forensic engineering reconstruction of accidents*. Springfield, IL: Charles C. Thomas, 1989.
- Brown, R. *Public information and records tracking: Information you can use*. Dallas, TX: P.I.R.T. Associates/ Heritage Worldwide, 1990.
- Buckwalter, A. *The search for evidence*. Boston: Butterworths, 1984.
- Bureau of Alcohol, Tobacco and Firearms. *ATF arson investigative guide*. Washington, DC: Bureau of Alcohol, Tobacco and Firearms, n.d.
- Bureau of Alcohol, Tobacco, and Firearms. *Arson: Overview of technical and legal considerations in utilizing the 1968 Gun Control Act and the 1970 Organized Crime Control Act in the federal prosecution of arson crimes*. Washington, DC: Bureau of Alcohol, Tobacco, and Firearms, 1981.
- Burgos and Associates, Inc. *Arson awareness study*. Melville, NY: Burgos and Associates/NYS Office of Fire Prevention and Control, 1981.
- Burnette, F.E., L.W. Smith. *Florida arson prosecution: A trial manual for Florida prosecutors*. Tallahassee, FL: Florida. Department of Insurance. Division of State Fire Marshal, 1980.
- Burns, L. *School arson in New South Wales*, Sydney, Australia: New South Wales Bureau of Crime Statistics and Research, 1991.
- California District Attorney's Association. *Arson investigation/arson prosecution*. Sacramento, CA: The Association/Aetna Life Insurance Co., 1980.
- California. Conference of Arson Investigators. *Arson investigation handbook*. Columbus, OH: Battelle Memorial Institute, 1973.
- California. Department of Education. *Fire Investigation 1*, Sacramento, CA: Department of Education, 1975.
- California. Legislature. Senate. Select Committee on Fire Services. *Arson: The neglected epidemic*. Sacramento: Select Committee on Fire Services, 1977.
- California. Office of the State Fire Marshal. Arson-Bomb Unit. *Arson and bomb scene investigation: A basic detection guide for fire service and law enforcement*. Sacramento, CA: Office of the State Fire Marshal. Arson-Bomb Unit, 1975.
- Canter, D. ed. *Fire and human behavior*. New York: John Wiley and Sons, 1980.
- Cantor, B. *The expert witness*. Belmont, MA: Civil Evidence Photography Seminars, 1985.
- Cardoulis, J.N. *Art and science of fire investigation*. St. John's Newfoundland, Canada: Breakwater Books, 1990.
- Carper, K.L. *Forensic engineering*. Elsevier Science Publishing Co., 1989.
- Carroll, J. *Physical and technical aspects of fire and arson investigation*. Springfield, IL: Charles C. Thomas Publishing Co., 1979.
- Carroll, J.R. *Physical and technical aspects of fire and arson investigation*. Springfield, IL: Thomas, 1978.
- Carter, R.E. *Arson investigation*. Encino, CA: Glencoe, 1978.
- Carter, R.E. *Arson investigation*. New York: Macmillan Publishing Co., 1978,
- Chemical Data Systems, Inc. *New York State Crime Lab arson analysis training manual*. Oxford, PA: Chemical Data Systems, 1982.
- Citizens League. Committee on Arson. *We make it too easy for the arsonist: A proposal for reducing the incentives to commit arson through better prevention, detection, investigation and insurance*. MN: Citizens League, 1978.
- City of Los Angeles. *All teen arson council student manual: The youth element of the arson task force, city of Los Angeles*. Los Angeles: The city of Los Angeles, 1979.
- Claps, J.M., M.A. Ficaró, N.F. Hartigan, J.F. Locallo, E.J. Ozog, R.D. Quinlivan. *Illinois attorney general arson training and prosecution manual*. Chicago: Illinois. Office of the Attorney General, 1990.
- Clet, V.H. *Fire-related codes, laws, and ordinances*. Encino, CA: Glencoe, 1978.
- Cole, L.S. *The investigation of motor vehicle fires*. Novato, CA: Lee Books, 1985.

- Cole, L.S. *The survey of vehicle fire causes: A study of cause and origin in 233 vehicle fire cases*. Novato, CA: Lee Books, 1988.
- Cole, L.S., R.C. Herold. *Investigation of recreational boat fires*. Novato, CA: Lee Books, 1983.
- Cole, R.E. *Juvenile fire setter intervention: Report of the Rochester, New York Fire Department*. Rochester, NY: Fire Related Youth Program, Rochester Fire Department, 1985.
- Cole, R.E. *Children and fire: Rochesterfire related youth project, second report 1986*. Rochester, NY: Rochester Fire Department, 1986.
- Commercial Union Assurance Companies. *Arson investigation handbook*. Boston: Commercial Union Assurance Companies, 1978.
- Congress. House. Committee on the Judiciary. *Anti-Arson Act of 1982: Report (to accompany HR. 6454)*. Washington, DC: Superintendent of Documents, 1982.
- Congress. Senate. Committee on Governmental Affairs, Permanent Subcommittee on Investigations. *Arson for hire*. Washington, DC: Superintendent of Documents, 1978.
- Congress. Senate. Committee on Governmental Affairs. Subcommittee on Intergovernmental Relations. *Arson for profit: Its impact on States and localities*. Washington, DC: Superintendent of Documents, 1978.
- Congress. Senate. Committee on Governmental Affairs. Subcommittee on Intergovernmental Relations. *The anti-arson act of 1979*. Washington, DC: Superintendent of Documents, 1979.
- Congress. Senate. Committee on the Judiciary. Subcommittee on Criminal Justice. *Arson for profit: Hearing before the subcommittee: Ninety-sixth Congress, second session*. Washington, DC: Superintendent of Documents, 1981.
- Connecticut. Governor's Arson Task Force: Connecticut Justice Commission. *The Connecticut plan for arson reduction*. McGrath, Sylva and Associates, Inc., 1979.
- Cook, R.F., J.A. Roehl. *Preventing crime and arson: A review of community-based strategies*. Reston, VA: Institute for Social Analysis, 1983.
- Copier, W.J. *The spalling of normalweight and lightweight concrete on exposure to fire*. Springfield, VA: National Technical Information Service, 1979.
- Coplan, S. *A profile of the juvenile arsonist*. Seattle, WA: University of Washington at Seattle, 1979.
- Corporate Consultants. AIMS-II. *The state of the art arson information management system*. Knoxville, TN: Corporate Consultants, 1984.
- Cozen, S.A. *A practical approach to the civil defense of fraud and arson cases*. Philadelphia, PA: Cozen, Begier and O'Connor, 1978.
- Crockett, T.S., CR. Newhouser. *Recognition of explosive and incendiary devices*. Arlington, VA: International Association of Chiefs of Police, n.d.
- Croskey, A., D.L. Davis. *Intervention with juvenile firesetters: Draft one*. Upper Arlington, OH: Upper Arlington. Fire Division. Bureau of Fire Prevention, 1979.
- Curtis, A.F. *A treatise on the law of arson, covering the decisions of all American states and territories, and including those of England and the British colonies*. Buffalo, NY: Dennis and Company, Inc., 1936.
- Davies, G. *Forensic science, 2nd ed. Revised and expanded*. Washington, DC: American Chemical Society, 1986.
- Dean, A.E., K. Tower eds. *Fire protection guide for hazardous materials*. Quincy, MA: National Fire Protection Association, 1986.
- DeHaan, J.D. *Kirk's fire investigation: 3rd edition*. Englewood Cliffs, NJ: Brady Fire Sciences Series, Prentice Hall, 1990.
- DeLeeuw, H. *Knowing about fire 1989. Primary prevention curriculum*. Rochester, NY: Rochester Fire Department/New York State Office of Fire Prevention and Control, 1989.
- Dennett, M.F. *Fire investigation: A practical guide for fire students and officers, insurance investigators, loss*. New York: Pergamon Press, 1980.
- Dobyns, S. ed. *Dancer with one leg: A novel*. New York: E.P. Dutton, Inc., 1983.
- Doolittle, M.L., F. Eller, R.S. Jackson. *Strategies for reducing incendiary fire occurrence in the South*. Atlanta, GA: Southeastern Area, State and Private Forestry, 1976.
- Duckworth, J.E. *Forensic photography*. Springfield, IL: Charles C. Thomas Pub. Co., 1983.
- Duncan, J.T. *Arson: A selected bibliography*. Rockville, MD: National Criminal Justice Reference Service, 1979.
- Dymek, E.J., R.W. Glowinski, A. Ludington, D.J. Ocove, K.A. Seger, H.L. Wilson, V. Turley. *Incendiary fire analysis and investigation: Course guide*. Emmitsburg, MD: National Emergency Training Center, 1988.
- Eastman Kodak Company. *Fire and arson photography*. N.p. 1969.
- Eastman Kodak Company. *Using photography to preserve evidence*. Rochester, NY: Eastman Kodak Co., 1976.
- Eaton, T.E. *Electric services and building fires*. Nicholasville, KY: Eaton Engineering Co., 1989.
- Eaton, T.E. *Notes on electrical fires*, 3rd ed. Nicholasville, KY: Eaton Engineering Company, 1989.

- Ettre, L.S. *Practical gas chromatography: For the use of Perkin-Elmer gas chromatographs*. Norfolk, CT: Perkin-Elmer Company, 1973.
- Factory Mutual. *A pocket guide to arson investigation*. Norwood, MA: Factory Mutual, 1979.
- Factory Mutual. *Arson*. Norwood, MA: Factory Mutual, 1977.
- Factory Mutual. *Arson: Not only for profit*. Boston: Factory Mutual, 1985.
- Factory Mutual. *Investigating arson: The arson lab can help*. Norwood, MA: Factory Mutual, 1981.
- Fairchild, M. *Select arson laws in the states: An examination of state laws to assist public and private officials*. Denver: National Conference of State Legislatures, 1980.
- Federal Bureau of Investigation. Uniform Crime Reporting Program. *Age-specific arrest rates 1965-1983*. Washington, DC: FBI, 1984.
- Federal Bureau of Investigation. Uniform Crime Reporting Program. *Age-specific arrest rates 1965-1984*. Washington, DC: FBI, 1986.
- Federal Bureau of Investigation. Uniform Crime Reporting Program. *Age-specific arrest rates and race-specific arrest rates for selected offenses 1965-1986*. Washington, DC: FBI, 1988.
- Federal Bureau of Investigation. Uniform Crime Reporting Program. *Age-specific arrest rates and race-specific arrest rates for selected offenses 1965-1988*. Washington, DC: FBI, 1990.
- Federal Bureau of Investigation. Uniform Crime Reporting Program. *Age-specific arrest rates and race-specific arrest rates for selected offenses-1989*. Washington, DC: FBI, 1991.
- Federal Bureau of Investigation. *Handbook of forensic science, revised ed.* Washington, DC: FBI, 1984.
- Federal Bureau of Investigation. *Uniform crime reports: Bomb summary*. Washington, DC: FBI, n.d.
- Federal Emergency Management Agency. *Arson taskforce assistance program*. Washington, DC: The Administration, 1980.
- Federal Emergency Management Agency. *Arson victims: Suggestions for a system response*. Chicago: American Bar Association. Victim Witness Assistance Project, 1983.
- Federal Emergency Management Agency. *Interviewing and counseling juvenile firesetters: The child under seven years of age*. Washington, DC: U.S. GPO, 1980.
- Federal Emergency Management Agency. *Juvenile firesetting counseling today: A sample of programs from across America*. Emmitsburg, MD: FEMA, 1989.
- Federal Fire Council. *Minutes of annual meeting*, April 17, 1968. Washington, DC: Federal Fire **Council**, 1968.
- Feins, J.D., J. Schreiber. *Arson investigation and prosecution: A study of four major American cities*. Washington, DC: National Institute of Justice, 1984.
- Ferry, T.S. *Modern accident investigation and analysis*. New York: John Wiley and Sons, 1988.
- Fineman, K.R. *Juvenile firesetters manual*. Washington, DC: Federal Emergency Management Agency, 1983.
- Fire Protection Association. *The CFPA Europe dossier on the prevention and control of arson*. London: The Conference, 1989.
- Fitch, R.D., E.A. Porter. *Accidental or incendiary*. Springfield, IL: Thomas, 1968.
- Fitch, R.D., E.A. Porter. *Accidental or incendiary*. Springfield, IL: Charles C. Thomas, 1974.
- Flatbush Development Corporation. *Developing a neighborhood-based arson early warning system: A manual for community groups*. Brooklyn, NY: Flatbush Development Corporation, 1983.
- Florida. Office of the Dade-Miami Criminal Justice Council. *Arson investigation training: Instructor manual*, Miami: Office of the Dade-Miami Criminal Justice Council, 1981.
- Florida. Office of the Dade-Miami Criminal Justice Council. *Arson investigation training: Participant manual*, Miami: Office of the Dade-Miami Criminal Justice Council, 1981.
- Florida. Office of the Dade-Miami Criminal Justice Council. *Basic arson detection: Student workbook*. Miami: Office of the Dade-Miami Criminal Justice Council, 1981.
- Ford, R.T. *Investigation of vegetation fires*. Fresno, CA: Fire Scene Investigations, 1987.
- Fox, R.H., C.L. Cunningham. *Crime scene search and physical evidence handbook*. Washington, DC: US Law Enforcement Assistance Administration, 1973.
- Frankford Arsenal. *Improvised munitions black book*. Cornville, AZ: Desert Publications, n.d.
- Frei-Sulzer, M., A. Suter. *Guidelines for working with cases of fires and explosion*. Heidelberg 1, Germany: Kriminalistik Verlag GmbH, 1971.
- French, H.M. *Anatomy of arson*. New York: Arco Publishing, Inc., 1979.
- Galvin, J.A.V., J.M. MacDonald, R.B. Shaughnessy. *Bombers and firesetters*. Springfield, IL: Thomas, 1977.
- Gardner, T.W., M. Hunt, H.M. Weisman. *Arson resource directory*. Washington, DC: Office of Fire Protection Management. Arson Resource Center, 1982.
- Gaynor, J. *The Firehawk children's program: A working manual*. San Francisco: National Firehawk Foundation, 1983.

- Gaynor, J. *The psychology of child firesetting*. New York: Burnner/Mazel, 1987.
- Gaynor, J., C. Hatcher. *The psychology of child firesetting: Detection and intervention*. New York: Burnner/Mazel, 1987.
- Gaynor, J., C. Hatcher, P.M. McLaughlin. *The Firehawk children's program: A working manual*. San Francisco: National Firehawk Foundation, 1984.
- Gaynor, J., T.G. Huff, C.L. Karchmer. *The linkages between childhood firestarting and adult arson crime: A secondary analysis of convicted*, San Francisco: National Firehawk Foundation, 1985.
- Georgia Arson Task Force State Crime Commission. *Georgia arson task force report*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1980.
- Gianeili, P.C., E.J. Imwinkeireid. *Scientific evidence*. Charlottesville, VA: Michie Company, 1986.
- Gilliam, L.L., M. Iris. *Fighting arson: An update on Illinois' cooperative effort*. Chicago: Illinois. Department of Insurance, 1982.
- Glines, D.F. *What a fireman should know about arson*. Sacramento, CA: California. Department of Education, 1973.
- Goetz, B. *Arson for profit, parcel clearance and rehabilitation background investigation and prediction manual*. San Francisco: San Francisco Arson Task Force, 1980.
- Goetz, B. *The San Francisco Arson Early Warning System*. Summary of research: 1979 to 1981. San Francisco: San Francisco Fire Department, 1981.
- Gohar, M.M. *Collection, preservation, and submission of physical evidence of a suspected arson or bombing*. Reynoldsburg, OH: Ohio. Division of State Fire Marshal, 1978.
- Goodrich, L., J. Lynch, H. Weisman. *Arson control guide for volunteer fire departments*. Washington, DC: Arson Resource Center, 1981.
- Greater Cleveland Crime Prevention Committee, Office of the United States Attorney. *Arson handbook for Ohio prosecutors*. Cleveland, OH: United States Attorney. Ohio Northern District, 1979.
- Green, G., D. Tobin. *Organizing against crime*. Washington, DC: Volunteer. National Center for Citizen Involvement, 1980.
- Greenfield, J., C. Karchmer, M.E. Walsh. *Enforcement manual: Approaches for combatting arson-for-profit schemes*. Washington, DC: N.p. 1980.
- Grob, R.L. *The modern practice of gas chromatography*. New York: Wiley-Interscience, 1977.
- Hall, J.R. *Analysis of electrical fire investigations in ten cities*. Washington, DC: National Bureau of Standards, 1983.
- Hall, J.R. Jr. *Arson trends and patterns in the U.S.* Quincy, MA: National Fire Protection Association, 1985.
- Hart, ED. *Arson for profit: A national challenge*. Northbrook, IL: Allstate Insurance Company. Loss Prevention Division, 1981.
- Hartford Insurance Group. *America's burning: Stop arson*. Hartford, CT: Hartford Insurance Group, 1980.
- Hartford Insurance Group. *Arson news media guidebook*. Hartford, CT: Hartford Insurance Group, n.d.
- Heydt, G.T. *Identification of lightning damage to electrical equipment and appliances*. Schaumburg, IL: Property Loss Research Bureau, n.d.
- Hight, T.H., CT. Shean, R.J. Sparks. *Georgia manual for arson investigators*. Decatur, GA: Prosecuting Attorneys' Council of Georgia, 1976.
- Hintz, S., M. Matthews, D. Tilton. *Arson investigation: CDAA and AETNA*. Sacramento, CA: California, District Attorneys Association, 1980.
- Hobson, D.B. *Fire investigation: A new concept*. Springfield, IL: Charles C. Thomas, 1992.
- Holtz, L.E. *Investigative and operational report writing*. Binghamton, NY: Gould Publications, 1989.
- Huron, B. *Elements of arson investigation*. New York: Reuben F. Donnelley Corp., 1963.
- Icove, D. *Combatting arson-for-profit: Advanced techniques for investigators*. Columbus, OH: Battelle Press, 1979.
- Icove, D.J., D.J. Schroeder, V.B. Wherry. *Combating arson-for-profit: Advanced techniques for investigators*. Columbus, OH: Battelle Press, 1980.
- Icove, D.J., O. Soliman. *Arson information management system: Users manual and documentation*. Washington, DC: United States Fire Administration, 1983.
- Icove, D.J., P.E. Keith. *Principles of incendiary crime analysis: The arson pattern recognition system approach to arson information management*. Knoxville, TN: Kentucky. Department of Public Safety, 1981.
- Illinois Advisory Committee on Arson Prevention. *Iceberg crime: What police officers should know about arson*. Bloomington, IL: Illinois Advisory Committee on Arson Prevention, n.d.
- Illinois. Advisory Committee on Arson Prevention; International Association of Arson Investigators. *Touched off by human hands*. Bloomington, IL: State Farm Fire and Casualty, n.d.

- Illinois. Advisory Committee on Arson Prevention. *The torch's reward: What insurance claims people should know about arson*. St. Louis, MO: Missouri. Advisory Committee on Arson Prevention, 1976.
- Illinois. Advisory Committee on Arson Prevention. *Verdict: Guilty of burning - what prosecutors should know about arson*. Bloomington, IL: Advisory Committee on Arson Prevention, 1980.
- Illinois. Department of Insurance. Department of Public Safety. *Fighting arson, an update on Illinois' cooperative effort*. Chicago: Illinois. Department of Insurance. Department of Public Safety, 1982.
- Illinois. Department of Insurance: Illinois. Department of Public Safety. *Fire and arson in Chicago: First prediction-next. prevention?* Chicago: Illinois. Department of Insurance: Department of Public Safety, 1981.
- Illinois, General Assembly, Legislative Investigating Commission. *Arson*. Chicago: Legislative Investigating Commission, 1978.
- Imwinkeireld, E.J. *Courtroom criminal evidence*. Charlottesville, VA: Michie Company, 1987.
- Inbau, F.E. *Criminal interrogation and confessions*, 3rd ed. Baltimore, MD: Williams and Wilkins, 1985.
- Insurance All-Industry Committee for Arson Control. *Target, arson: A series of recommendations*. Insurance All-Industry Committee for Arson Control, 1978.
- Insurance Committee for Arson Control. *Anti-arson funding guidelines: A practical approach to grant analysis*. New York: Insurance Committee for Arson Control, 1984.
- Insurance Committee for Arson Control. *Arson control directory*. Chicago: Insurance Committee for Arson Control, 1980.
- Insurance Committee for Arson Control. *Company anti-arson program evaluation*. New York: Insurance Committee for Arson Control, 1982.
- Insurance Committee for Arson Control. *Current arson issues: A position paper*. Chicago: Insurance Committee for Arson Control, 1980.
- Insurance Committee for Arson Control. *Guidelines and resources for identifying and avoiding the arson-prone risk*. Chicago: Insurance Committee for Arson Control, 1984.
- Insurance Committee for Arson Control. *Options for claims training: Training models for the detection, investigation and litigation of fraud*. New York: Insurance Committee for Arson Control, 1983.
- Insurance Committee for Arson Control. *State-by-state summary of the arson reporting-immunity laws*. N.p. 1986.
- Insurance Committee for Arson Control. Public Relations Subcommittee. *Arson control: How and why, who, what, where*. Chicago: Insurance Committee for Arson Control. Public Relations Subcommittee, 1979.
- Insurance Crime Prevention Institute. *Insurance fraud: ICPI handbook for insurance personnel*. Westport, CT: Insurance Crime Prevention Institute, 1989.
- International Association of Arson Investigators. *Arson information management system; Users documentation*. Washington, DC: United State Fire Administration, 1985.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: IAAI, 1975.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: IAAI, 1977.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: IAAI, 1978.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: IAAI, 1979.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: IAAI, 1980.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: IAAI, 1981.
- International Association of Arson Investigators. *Constitution and bylaw*, May I, 1982. N.p. 1982.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: IAAI, 1983.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: IAAI, 1985.
- International Association. of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: The IAAI, 1986.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: The IAAI, 1988.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: The IAAI, 1989.
- International Association of Arson Investigators. *Constitution and bylaws*. Marlboro, MA: The IAAI, 1990.
- International Association of Arson Investigators. *Constitution and bylaws*, Marlboro, MA: The IAAI, 1991:
- International Association of Arson Investigators. *Selected articles for arson investigators*. Springfield, IL: IAAI, 1975.
- International Association of Arson Investigators Inc. *Selected bibliography for arson investigators*. Springfield, IL: IAAI, 1974.
- International Association of Arson Investigators. *38th anniversary constitution and bylaws membership directory, May 1, 1987*. Rockville,, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1987.

- International Association of Arson Investigators. Illinois Chapter. *The torch's reward: What insurance claims people should know about arson*. Bloomington, IL: Illinois. Advisory Committee on Arson Prevention, 1975.
- International Association of Arson Investigators. Illinois Chapter; State Farm and Casualty Company. *The iceberg crime: What police of officers should know about arson*. Bloomington, IL: Illinois. Advisory Committee on Arson Prevention, 1980.
- International Association of Chiefs of Police. *Criminal Investigation, 2 - specific offenses*. Arlington, VA: International Association of Chiefs of Police, 1975.
- International Association of Fire Chiefs. *Adolescent firesetter handbook: Ages 14-18*. Washington, DC: U.S. Fire Administration, 1988.
- International Association of Fire Chiefs. *Child firesetter handbook - ages 7-13*. Washington, DC: U.S. GPO, 1988.
- International Association of Fire Chiefs. *Child firesetter handbook ages 14-18*. Washington, DC: U.S. GPO, 1988.
- International Association of Fire Chiefs. *Establishing an arson strike force*. Washington, DC: IAFC/US Fire Administration, n.d. Also in Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1989.
- International Association of Fire Chiefs. *Preadolescent firesetter handbook: Ages 0-7*. Washington, DC: U.S. Fire Administration, 1988.
- International Association of Fire Chiefs. *Rural arson control study: Final report: Vols I and II*. Washington, DC: IAFC/US Fire Administration, 1985.
- International Association of Fire Chiefs. *Rural arson control study*, Washington, DC: U.S. Fire Administration, 1989.
- International Fire Service Training Association. *Fire cause determination*. Stillwater, OK: The Association/Oklahoma State University, 1982.
- International Training, Research and Evaluation Council. *Workshop synopsis: Governor's conference on arson and arson for profit*. Fairfax, VA: International Training, Research and Evaluation Council, 1978.
- Jergens, F., S. Moore, F.S. Ringler, R.S. Ringler. *Tenants' manual for fighting arson*. Brooklyn, NY: People's Firehouse, Inc., 1983.
- Jones, R. *Investigation of arson, crime scenes and vehicular problems*. Wichita, KS: Inform Milton Helpen International Center for Forensic Sciences, 1976.
- Kamlsar, Y. *Police interrogation and confessions: Essays in law and policy*. Ann Arbor, MI: University of Michigan Press, 1980.
- Karchmer, C.L. *The government executive's guide to arson prevention and control: A handbook on information systems*. Washington, DC: United States Fire Administration, 1981.
- Karchmer, CL. *Juvenile firesetter and school arson prevention programs*. Hartford, CT: Aetna Life and Casualty Company, 1983.
- Karchmer, C.L. *Model curriculum and trainers' guide: The detection and investigation of arson-for-profit schemes*. Washington, DC: U.S. Law Enforcement Assistance Administration, 1981.
- Karchmer, CL. *Neighborhood based arson control: A guide to citizen-initiated legal remedies*. Washington, DC: Battelle Memorial Institute. Human Affairs Research Centers, 1983.
- Karchmer, CL. *Neighborhood based arson control: Collected papers*. Springfield, VA: National Technical Information Service, 1985.
- Karchmer, C.L. *Preventing arson epidemics: The role of early warning strategies*. Hartford, CT: Aetna Life and Casualty Co., 1983.
- Karchmer, C.L. ed. *Enforcement manual: Approaches for combatting arson-for-profit schemes*. Washington, DC: U.S. Department of Justice, Law Enforcement Assistance Administration: Supt. of Docs., U.S. G.P.O., 1980.
- Kennedy, J. *Fire and arson investigation*. Chicago: Investigations Institute, 1962.
- Kennedy, J. *Fire and arson investigation*. Chicago: Investigations Institute, 1972.
- Kennedy, J. *Fire, arson and explosion investigation*. Chicago: Investigations Institute, 1977.
- Kennedy, J. *Fire and explosions: Determining cause and origin*. Chicago: Investigations Institute, 1985.
- Kennedy, J., P.M. Kennedy. *Explosion investigation and analysis: Kennedy on explosions*. Chicago: Investigations Institute, 1990.
- Kennedy, J., P.M. Kennedy. *Fires and explosions: Determining cause and origin*. Chicago: Investigations Institute, 1985.
- King, B. *Fire investigation: Module I and II*. Champaign, IL: Illinois Fire Service Institute, 1990.

- King, B. *Fire investigation: Module III*. Champaign, IL: Illinois Fire Service Institute, 1990.
- Kirk, P.L. *Fire investigation: Including fire-related phenomena - arson, explosions, asphyxiation*. New York: Wiley, 1969.
- Kirk, P.L., J.D. DeHaan. *Kirk's fire investigation*. New York: John Wiley and Sons, 1983.
- Knowles, G. *Bomb security guide*, Los Angeles: Security World Publishing Company, 1976.
- Ku, R. Arson control. *A synthesis of issues and strategies based on the arson control assistance program*. Cambridge, MA: Abt Associates, 1981.
- Kwan, Q.Y. *Scientific method for determining point of origin in arson investigation*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program,, 1970.
- Lattea, K. Neighborhood arson control systems: *A manual for community organizations*. Boulder, CO: The National Center for Citizen Involvement, 1980.
- Law Enforcement Assistance Program. *Report on the Bolingbrook firelarson prevention program*. Bolingbrook, IL: Bolingbrook. Fire Department, 1982,
- Lecomte, J.E. *The role of an attorney in the investigation and defense of an arson loss*. Boston, MA: J.E. Lecomte, 1974.
- Lenz, R. *Explosives and bomb disposal guide*. Springfield, IL: Charles C. Thomas Publishing Company, 1965.
- Lewis, N.D.C., H. Yarnell. *Pathological firesetting (pyromania)*. New York: Coolidge Foundation, 1951.
- Life Safety Systems. *Post mortem protocol*. Washington, DC: Life Safety Systems, 1986.
- Lincoln Land Community College. *Fire/arson investigation training program*. Washington, DC: National Fire Academy, 1979.
- Link, F.C., D.G. Foster. *The kinesic interview technique*. Riverdale, CA: Interrotec Associates, 1980.
- Lipskin, B.A., K.S. Field. *Death investigation and examination; Medicolegal guidelines and checklists*. Colorado Springs, CO: Forensic Sciences Foundation Press, 1984.
- Logue, F. *Arson: How much does it cost your city?* Washington, DC: International City Management Association, 1981.
- Lomonte, J.N., W.T. Lowry, I.C. Stone. *Scientific assistance in arson investigation: A review of the state of the art and a bibliography*. Dallas, TX: American Society of Crime Laboratory Directors. Committee on New Research and Development, 1977.
- Los Angeles County. Fire Department; National Fire Prevention and Control Administration. *Development and implementation of a juvenile firesetter intervention program*. Bolingbrook, IL: Bolingbrook. Fire Department. Bureau of Fire Prevention, 1978.
- Los Angeles County. League of California Cities Division. Criminal Justice Planning Unit. *Arson: A status report*. Los Angeles: League of California Cities Division., 1977.
- Los Angeles. Youth Element of the Arson Task Force. *All teen arson council staff coordinator manual implementation phase*. Los Angeles: Los Angeles Youth Element of the Arson Task Force, 1979.
- Luca, R.J. Beyond Sherlock Holmes: *Solving serial crimes in the 21st century*. Sacramento, CA: California Commission on Peace Officer Standards and Training, Center for Executive Development, 1991.
- Lyons, P.R. *Fire in America*. Boston, MA: National Fire Protection Association, 1976.
- Lyons, P.R. *Techniques of fire photography*. Boston: National Fire Protection Association, 1978.
- Macdonald, J., D. Michaud. *Confession: Interrogation and criminal profiles for police officers*. Denver, CO: Apache Press, 1987.
- Macdonald, J.M. *Bombers and firesetters*. Springfield, IL: Charles C. Thomas Publishing Company, 1977.
- Macdonald, J.M., T.P. Haney. *Criminal investigation*. Denver, CO: Apache Press, 1990.
- MacHovec, F.J. *Interview and interrogation: A scientific approach*. Springfield, IL: Charles C. Thomas Publishing Company, 1989.
- Madison, A. *Arson*. Danbury, CT: Franklin Watts, Inc., 1978.
- Majeski, W.J., R. Butler. *The lie detection book*. New York: Ballantine Books, 1988.
- Maryland Office of the State's Attorneys' Coordinator. *Maryland State's Attorneys' arson investigation and prosecution manual*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- Massachusetts Department of Correction. *Adult arson study: Final report*. Boston: Massachusetts Department of Correction, 1985.
- Massachusetts Office of the Lieutenant Governor. *Arson for profit*. Rockville, MD: National Institute of Justice/ National Criminal Justice Reference Service Microfiche Program, n.d.
- Massachusetts. Arson Action Group. *Report of Massachusetts Arson Action Group*. Arson Action Group, 1977.
- Massachusetts. Arson Task Force. *Arson for profit*. Boston, MA: MA Arson Task Force, 1980.

- Mathews, K.E., S.H. Webster. *A survey of arson and arson response capabilities in selected jurisdictions*. Washington, DC: National Institute of Law Enforcement and Criminal Justice, 1979.
- Matson, J.V. *Effective expert witnessing: A handbook for technical professionals*. Chelsea, MI: Lewis Publishers, 1990.
- Mayre, L. *Arson investigation in New Orleans: The development of a coordinated effort*. New Orleans: New Orleans. Office of Criminal Justice Coordination, 1984.
- Mazer, W.M. *Electrical accident investigation handbook*. Glen Echo, MD: Electrodata Inc., 1986.
- McClees, H.C., A.J. Decker, D.J. Carpenter. *Managing arson control systems: A study of arson and anti-arson efforts in a selected sample of jurisdictions*. Washington, DC: US Department of Justice; National Institute of Justice, 1982.
- McCullough, D.C. *Arson-from blaze to Bastille: Or the successful discovery and prosecution of causes and origins of fires*. Hagerstown, IN: N.p., 1982.
- McKinney, C.D. *An exploratory investigation of America's most costly delinquents*. N.p. 1986.
- Mesa Fire Department, *Mesa juvenile firesetter program*. Mesa, AZ: Mesa Fire Department, 1979.
- Message, G.M. *Practical aspects of gas chromatography/mass spectrometry*. New York: John Wiley and Sons, 1984.
- Micheels, P.A. *Heat: The fire investigators and their war on arson and murder*. New York: St. Martin's Press, 1991.
- Miksic, T.L. *Arson: A dilemma for the criminal justice system*. Huntsville, TX: Sam Houston State University, 1978.
- Miller, J.M. *Chromatography: Concepts and contrasts*. New York: John Wiley and Sons, 1987.
- Missouri, General Assembly. House of Representatives. Governmental Review Committee. *Transcript*. Jefferson City, MO: Governmental Review Committee, 1978.
- Moenssens, A.A. *Scientific evidence in criminal cases*, 3rd ed. Mineola, NY: Foundation Press, 1986.
- Moger, S. *Arson*, Stony Brook, NY: State University of New York at Stony Brook. College of Engineering and Applied Sciences, 1982.
- Moll, K.D. *Arson, vandalism, and violence. Law enforcement problems affecting fire departments*. Washington, DC: National Institute of Law Enforcement and Criminal Justice, 1974.
- Monaco, C. *Flame out: A therapeutic intervention for juvenile firesetters and their parents*. Phoenix, AZ: Phoenix Fire Department, 1988.
- National Automobile Theft Bureau. *Manual for the investigation of automobile fires*. N.p., n.d.
- National Board of Fire Underwriters. *Suggestions for arson investigators*. New York: NBFU, 1956.
- National Committee on Property Insurance. Arson Task Force. *Anti-arson action plan*. Boston: National Committee on Property Insurance Arson Task Force, 1980.
- National Criminal Justice Reference Service. *National criminal justice reference service arson directory*. Rockville, MD: National Criminal Justice Reference Service, 1980.
- National Criminal Justice Reference Service. *Topical bibliography: Arson*. Rockville, MD: National Criminal Justice Reference Service, n.d.
- National Fire Academy. *Arson investigation and prosecution*. Houston, TX: National College of District Attorneys, 1979.
- National Fire Academy. *Fire/arson detection*. Emmitsburg, MD: National Fire Academy, 1978.
- National Fire Academy. *Fire/arson detection*. Emmitsburg, MD: National Fire Academy, 1983.
- National Fire Academy. *Fire/arson investigation*. Emmitsburg, MD: National Fire Academy, 1984.
- National Fire Academy. *Fire/arson detection - instructor's guide*. Emmitsburg, MD: National Fire Academy, 1980.
- National Fire Academy. *Fire/arson detection - student manual*. Emmitsburg, MD: National Fire Academy, 1980.
- National Fire Academy. Open Learning Fire Service Program. *Incendiary fire analysis and investigation: Course reader*. Emmitsburg, MD: National Emergency Training Center, 1988.
- National Fire Prevention and Control Administration. *Arson-a national perspective*. Washington, DC: National Fire Prevention and Control Administration, 1978.
- National Fire Protection Association. *Arson, some problems and solutions*. Boston, MA: National Fire Protection Association, 1976.
- National Fire Protection Association. *The firefighter's responsibility in arson detection*. Boston: National Fire Protection Association, 1971.
- National Fire Protection Association. Committee on Firemen's Training. *The fireman's responsibility in arson detection*. Boston, MA: NFPA, 1946.

- National Fire Protection Association. *Fire investigator's guide to NFPA 1031*. Quincy, MA: National Fire Protection Association, 1983.
- National Fire Protection Association. *Manual on the investigation of fires of electrical origin*. Quincy, MA: National Fire Protection Association, 1983.
- National Firehawk Foundation. *Juvenile firesetter/Firehawk starter pack*. San Francisco: National Firehawk Foundation, 1986.
- National Legislative Conference on Arson. 1981 *legislative manual*. Denver, CO: National Legislative Conference on Arson, 1981.
- National Trust for Historic Preservation; United States Fire Administration. *History threatened: Arson: An anti-arson kit for preservation and neighborhood action*. Washington, DC: Conservancy Group, 1982.
- New Haven, CT Fire Department. *City of New Haven arson warning and prevention strategy: A model program for arson early warning*. New Haven, CT: New Haven Fire Department, 1980.
- New Jersey Bureau of Fire Safety. *The juvenile firesetter: A report to the governor*. Trenton, NJ: New Jersey Bureau of Fire Safety, 1989.
- New Jersey Department of Law and Public Safety. *New Jersey arson investigation and prosecution manual*. N.p., n.d.
- New Jersey Fire Prevention Association. *Statewide arson network system*. West Trenton, NJ: New Jersey Fire Prevention Association, 1976.
- New Jersey. Division of Criminal Justice. *Arson investigation and prosecution*. Trenton, NJ: New Jersey. Division of Criminal Justice, 1981.
- New School for Social Research. Department of Urban Affairs and Policy Analysis. *Criteria for sites for a neighborhood arson prevention program*. New York: Department of Urban Affairs and Policy Analysis, 1977.
- New York City. Arson Strike Force. Community Outreach Unit. *Anti-arson strategies: A guide for community organizations*. New York: New York City. Arson Strike Force. Community Outreach Unit, n.d.
- New York City. Arson Strike Force. *Arson in New York City*. New York: City of New York. Office of the Mayor, 1985.
- New York City. Arson Strike Force. *Arson in New York*. New York: New York Arson Strike Force, 1983-1989.
- New York City. Arson Strike Force. *Landlord contact program*. New York: New York. Arson Task Force, 1981.
- New York City. Arson Strike Force. *New York City's arson control and investigation plan*. New York: New York Arson Strike Force, 1981.
- New York City. Arson Strike Force. *Predicting arson risk in New York City: A first report*. New York: New York. The Strike Force, 1980.
- New York City. Arson Strike Force. *Researching arson-for-profit: A manual for investigators and prosecutors*. New York: Arson-for-profit Information Center, 1980.
- New York City. Arson Strike Force. *Researching arson for profit: A manual for investigators and prosecutors*. New York: New York City Arson Strike Force, 1981.
- New York City. Arson Strike Force. *Study of government subsidized housing rehabilitation programs and arson*. New York: New York. The Strike Force, 1983.
- New York City. Bureau of Fire Investigation. *Auto squad*. New York: Fire Investigation Bureau, 1985.
- New York City. Bureau of Fire Investigation. *Bureau of Fire Investigation training manual*. New York: Bureau of Fire Investigation, 1986.
- New York City. Fire Department. *Arson*. New York: New York City Fire Department, n.d.
- New York City. Fire Department. *Red Cap Program: Executive summary*. New York: New York City Fire Department, n.d.
- New York City Fire Department. Bureau of Fire Investigation. *Juvenile firesetters intervention program: First annual report*. New York: Bureau of Fire Investigation, 1987.
- New York State Academy of Fire Science. *Arson bibliography*, 1985 edition. N.p. 1985.
- New York State Academy of Fire Science. *Arson bibliography*. Rockville, MD: National Institute of Justice/ National Criminal Justice Reference Service Microfiche Program, 1987.
- New York State Academy of Fire Science. *Investigating total burn fires*. Montour Falls, NY: New York State Academy of Fire Science, 1986.
- New York State Academy of Fire Science. *Selected articles on arson and related subjects*. Montour Falls, NY: Academy Library, 1987.

- New York State Bureau of Prosecution and Defense Services. *Scientific evidence and expert testimony*. Albany, NY: New York State Bureau of Prosecution and Defense Services, 1980.
- New York State Office of Fire Prevention and Control. *Arson laboratory improvement program report*. Albany, NY: New York State Office of Fire Prevention and Control, 1983.
- New York State Office of Fire Prevention and Control. *Cause and origin determination*. Albany, NY: New York State Office of Fire Prevention and Control, n.d.
- New York State Office of Fire Prevention and Control. *Fire behavior and arson awareness: Lesson plans*. Albany, NY: New York. Office of Fire Prevention and Control, 1980.
- New York. Office of Fire Prevention and Control. *Fire behavior and arson awareness: Workbook*. Albany, NY: New York. Office of Fire Prevention and Control, 1980.
- New York State. Office of Fire Prevention and Control. *Fire service guides*. Albany, NY: Office of Fire Prevention and Control, 1988.
- New York State Office of Fire Prevention and Control. *Juvenile firesetter intervention: Report of the Rochester, New York Fire Department Fire Related Youth Program*. Albany, NY: New York State Office of Fire Prevention and Control, 1985.
- New York State. Office of Fire Prevention and Control. *New York State's action against arson*. Albany, NY: New York State. Office of Fire Prevention and Control, 1982.
- New York State Office of Fire Prevention and Control. *Program planning and proposal writing*. Albany, NY: New York State Office of Fire Prevention and Control, 1986.
- New York State Office of Fire Prevention and Control. *A review of NY State's arson program 1979-1983: Report to the New York State Arson Board*. Albany, NY: New York State Office of Fire Prevention and Control, 1984.
- O'Brien, D.M. *Elements of arson investigation*. New York: R.H. Donnelley, 1972.
- O'Connor, J.J. *Practical fire and arson investigation*. New York: Elsevier, 1987.
- Ohio Fire Academy. *Arson investigation: Student workbook*. Ohio Fire Academy, n.d.
- Open Learning Fire Service Program. *Incendiary fire analysis and investigation*. Lexington, MA: Ginn Custom Publishing Company, 1979.
- Open Learning Fire Service Program. *Incendiary fire analysis and investigation*. Emmitsburg, MD: National Fire Academy, 1989.
- Oregon. Governor's Task Force on Fire Cause and Arson Investigation. *A guide for investigation and prosecution of arson and other offenses against property in Oregon*. Salem, OR: Oregon. Office of State Fire Marshal, 1979.
- Orne, M.T. *Hypnotically refreshed testimony: Enhanced memory or tampering with evidence*. Washington, DC: U.S. Department of Justice/National Institute of Justice, 1985.
- Pacific Science and Engineering Group, Inc. *Fire and arson investigators' field index directory*. N.p. 1990.
- Paladin Press. *Arson: The complete investigator's manual*. Boulder, CO: Paladin Press, 1990.
- Patton, A., J.C. Russel. *Fire litigation sourcebook: Technical, medical and legal aspects*. New York: Garland, 1986.
- Patton, A., J.C. Russell. *Fire litigation sourcebook: Technical, medical and legal aspects*. New York: Garland, 1987.
- Peige, J.D. *Photography for the fireservice*. Stillwater, OK: International Fire Service Training Association, 1976.
- Pennsylvania. Governor's Interagency Committee on Arson. *Arson control in Pennsylvania: Report of the Governor's Interagency Committee on Arson*. Harrisburg, PA: Pennsylvania. Governor's Interagency Committee on Arson, 1982.
- Perkin-Elmer Company. Sigma gas chromatograph operational notes. Norwalk, CT: Perkin-Elmer Company, n.d.
- Peterson, J.L. *Forensic evidence and the police: The effects of scientific evidence on criminal investigations*. Washington, DC: National Institute of Justice, 1984.
- Peterson, J.L. *The utilization of criminalistics services by the police: An analysis of the physical evidence recovery process*. Washington, DC: National Institute of Law Enforcement and Criminal Justice, 1974.
- Phillipps, C., D. McFadden. *Investigating the fireground*. Bowie, MD: Robert J. Brady Company, 1982.
- Pierce, G.M. *Destruction by demolition, incendiaries and sabotage*. Boulder, CO: Paladin Press, n.d.
- Pike, E.A. *Protection against bombs and incendiaries: For business industrial, and educational institutions*. Springfield, IL: Thomas, 1972.
- Pisani, A.L. *Adult firesetting behavior: A typology*. New York: John Jay College of Criminal Justice, 1981.
- Powell, W. *The anarchist cookbook*. Secaucus, NJ: Barricade Books, Inc., 1971.
- Property Loss Research Bureau. *C/ORE commercial adjusters kit*. Chicago: Property Loss Research Bureau, 1983.

- Property Loss Research Bureau. *C/ORE residential adjuster's kit*. Chicago: Property Loss Research Bureau, 1981.
- Provencher, R.G. *Was it arson*. New York: General Adjustment Bureau, Inc., 1972.
- Public Technology, Inc. *Anti-arson resource and action guide*. Washington, DC: Public Technology, Inc., 1982.
- Public Technology, Inc. *Arson: A multifaceted problem*. Washington, DC: U.S. Fire Administration, 1980.
- Rapkin, C., ed. *Social and economic consequences of residential fires*. MA: Lexington Books, 1977.
- Redsicker, D.R. *The practical methodology of forensic photography*. New York: Elsevier Science Publishing Company, 1991.
- Rhode Island Fire Marshal's Office/Rhode Island FAIR Plan. *Rhode Island juvenile firesetters seminar*. Providence, RI: Rhode Island Fire Marshal's Office, 1985.
- Rider, A.O. *The firesetter: A psychological profile*. Quantico, VA: FBI, 1980.
- Robertson, J.C. *Introduction to fire prevention: 3rd edition*. New York: Macmillan Publishing Co., 1989.
- Roblee, C.L. *The investigation of fires, 2nd ed*. Englewood Cliff, NJ: Prentice-Hall, 1988.
- Roblee, C.L., A.J. McKechnie, W. Lundy. *Investigation of fires: 2nd edition*. Englewood Cliffs, NJ: Prentice Hall, 1988.
- Rochester, New York. Fire Department. *Children and fire: Rochester fire related youth project: Progress report: volume II*. Rochester, NY: Rochester Fire Department, 1986.
- Rochester, New York. Fire Department. *Final report: Arson detection and awareness project April 1, 1980 through September 30, 1981*. Rochester, NY: Rochester Fire Department, n.d.
- Rochester, New York, Fire Department. *Operations manual of the Rochester Fire Investigation Unit*. Rochester, NY: Rochester Fire Department, 1982.
- Rochester, New York. Fire Department. *Untitled Fry program progress report*. Rochester, NY: Rochester Fire Department 1984, n.d.
- Rosenbauer, D.L. *The arson epidemic*. Quincy, MA: National Fire Protection Association, 1981.
- Rosenbauer, D.L. *The arson investigator's responsibility*. Quincy, MA: National Fire Protection Association, 1981.
- Rosenbauer, D.L. *The arson trial: Courtroom procedures*. Quincy, MA: National Fire Protection Association, 1981.
- Rosenbauer, D.L. *Expanding the arson investigation*. Quincy, MA: National Fire Protection Association, 1981.
- Rosenbauer, D.L. *The fire department's role in arson investigation*, Quincy, MA: National Fire Protection Association, 1981.
- Rosenblatt, A.M. *The complete search warrant, annotated*. Albany, NY: Bureau of Prosecution Services, New York State Division of Criminal Justice Services, 1986.
- Roy, M.B., L. Herbert, R.L. Copeland. *Arson in Massachusetts: Sentencing patterns, 1975-1978*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1980.
- Royal, R.F., S.R. Schutt. *The gentle art of interviewing and interrogation: A professional manual and guide*. Englewood Cliffs, NJ: Prentice-Hall, 1976.
- Rutledge, D. *Courtroom survival: The officer's guide to better testimony*. N.p.: Custom Publishing Company, 1982.
- Saferstein, R. *Forensic science handbook*. Englewood Cliffs, NJ: Prentice-Hall, 1982.
- Saks, M.J., R. Van Duizend. *The use of scientific evidence in litigation*. Williamsburg, VA: National Center for State Courts, 1983.
- Sansone, S.J. *Modern photography for police and firemen*. Cincinnati, OH: W.H. Anderson Company, 1971.
- Sansone, S.J. *Arson: A complex social and economic problem*. N.p. 1980.
- Sawyer, J.P. *The saga of Gridley: "Fire when ready"*. Boston: Massachusetts. Lieutenant Governor's Arson Task Force, n.d.
- Saxon, K. *Fireworks and explosives like grandad used to make*. Eureka, CA: Atlan Formularies, 1975.
- Saxon, K. *The poor man's James Bond*. Eureka, CA: Atlan Formularies, 1972.
- Schiller, N.G., M. Jacobson. *Stress-induced arson: An example of stress-induced crime*. New York: New York City Arson Strike Force, 1984.
- Schmidt, H.A. *Chasing paper: A research manual for arson investigators*. Boston: First Security Services Corporation, 1980.
- Schmidt, H.H. *Chasing paper: A research manual for arson investigators*. Boston: First Security Services Corp., 1979.
- Seattle, WA. Mayor's Task Force on Arson. *An analysis of arson in a socio-economic framework*. Seattle: The Institute for Puget Sound Needs, 1976.
- Shapiro, H.D. *Fire insurance and the inner city*. New York: NY City Rand Institute, 1971.
- Siemer, D. *Tangible evidence: How to use exhibits at trial*. Englewood Cliffs, NJ: Prentice-Hall, 1989.

- Siler, J. *Triangles of fire*. New York: Dell Publishing Company, 1984.
- Siljander, R.P. *Applied police and fire photography*, Springfield, IL: C.C. Thomas Publishing Company, 1976.
- Smith, E.O. *Workbook for fire investigation*. Alta Loma, CA: Chaffey Community College. Fire Technology , Program, 1979.
- Soderman, H., J. O'Connell. *Modern criminal investigation*. Mexico: Editorial Limusa-Wiley, 1974.
- South Carolina. Office of the Governor. Division of Public Safety Programs. *Recommendations of the governor's arson task force*. Columbia, SC: South Carolina. Office of the Governor. Division of Public Safety Programs., 1981.
- Spitz, W.U., R.S. Fisher. *Medicolegal investigation of death: Guidelines for the application of pathology to crime investigation*. Springfield, IL: Charles C. Thomas, 1980.
- St. Paul Fire and Marine Insurance Company. *Juvenile crime prevention curriculum: An awareness program for 8th and 9th grades*. St. Paul, MN: St. Paul Insurance Company, 1981.
- State Farm Fire and Casualty Company. *Arson investigation and defenses*. State Farm Fire and Casualty Company, 1979.
- State Farm Insurance Companies. *The 10-year war on arson*. Bloomington, IL: State Farm Insurance Companies, 1980.
- Steinhour, D. *Arson and fire prevention: Curriculum for students ages 10-14: Teacher edition*. Springfield, IL: Illinois Department of Law Enforcement, 1982.
- Steinhour, G. *Arson and fire prevention: Curriculum for students ages 10-14*. Springfield, IL: Illinois. Department of Law Enforcement, 1982.
- Stickney, C.W. *How to identify fire causes*. Boston: National Fire Protection Association, 1960.
- Stiefel, S.W. *Use of decision analysis in arson program planning*. Washington, DC: National Bureau of Standards, 1982.
- Stillwater, International Fire Service Training Assoc., eds. *Fire cause determination: 1st Edition*, N.p. 1982.
- Stoffel, J. *Explosions and homemade bombs*. Springfield, IL: Charles C. Thomas Publishing Company, 1972.
- Stone, M. Research: *A manual for arson analysis and property research*. Boston: Urban Education Systems, 1979.
- Stone, N., H.M. Weisman. *Arson resource directory*. Washington, DC: Arson Resource Center, 1980.
- Suchy, J.T. *Arson: America's malignant crime. Final Report*. Washington, DC: National Fire Prevention and Control Administration, 1976.
- Suffolk County. Arson Action Committee. *Arson recognition handbook*. Suffolk County, NY: Suffolk County. Arson Action Committee, 1980.
- Sullivan County Arson Task Force. *Arson control plan*. Sullivan County, NY: Sullivan County Arson Task Force, 1981.
- Swab, SE. *Incendiary fires: A reference manual for fire investigators*. Bowie, MD: Robert J. Brady Co., 1983.
- Swedish Fire Protection Association. *Fires intentionally started in schools: Preventative measures*. Stockholm: Swedish Fire Protection Association, 1985.
- Taylor, L. Scientific interrogation: Hypnosis, polygraphy, narconanalysis, voice stress and pupilometrics. Charlottesville, VA: Michie Company, 1984.
- Terran Systems, Inc. *Arson in Buffalo: 1980 and 1981*. Buffalo, NY: Terran Systems, 1982.
- Texas Advisory Council on Arson, Inc. *Arson in Texas: It should burn you up*. Austin, TX: Texas Advisory Council on Arson, Inc., 1978.
- Texas Advisory Council on Arson, Inc. *Texas arson notebook*. Austin, TX: Texas Advisory Council on Arson, Inc., 1976.
- Texas. District and County Attorneys Association. *Arson prosecution*. Austin, TX: Texas. District and County Attorneys Association, 1980.
- Tidwell, N.B. *1981 legislative manual*. Columbus, OH: National Legislative, Conference on Arson, 1981.
- Tidwell, N.R. *Inventory of enacted state arson legislation*. Columbus, OH: National Legislative Conference on Arson, 1982.
- Tilton, D. *Taking the stand: How you can help win arson cases in court*. North Hollywood, CA: Film Communicators, 1981.
- Timlin, R.T. *Course of study for fire investigation*, Seattle: Washington Community College. District VI. Office for Educational Technology and Systems Services, 1970.
- Todd, A.L. *Spark lighted in Portland "The record of the national board of fire underwriters"*. New York: McGraw-Hill Book Co., 1966.
- Tuck, C.A. *The firefighter's responsibility in arson detection*. Boston: National Fire Protection Association, 1971.

- United States. Bureau of Alcohol, Tobacco and Firearms. *Arson for profit investigation course: Reference and readings*. Washington, DC: Bureau of Alcohol, Tobacco and Firearms, 1983.
- United States. Bureau of Alcohol, Tobacco and Firearms. *ATF arson investigative guide*. Washington, DC: Bureau of Alcohol, Tobacco and Firearms, 1988.
- United States. Bureau of Alcohol, Tobacco and Firearms; Connecticut State Police. *Canine accclerant detection program*. N.p. 1988.
- United States. Bureau of Alcohol, Tobacco and Firearms. *Firearms and explosives tracing guidebook*. Bureau of Alcohol, Tobacco and Firearms, 1988.
- United States. Bureau of Alcohol, Tobacco and Firearms. *Who do I call? Explosives federal agency directory*. Washington, DC: Bureau of Alcohol, Tobacco and Firearms, 1981.
- United States. Central Intelligence Agency. *CIA field expedient incendiary manual*. Cornivelle, AZ Desert Publications, 1977.
- United States. Consumer Product Safety Commission. *Indepth investigations manual*. Washington, DC: Consumer Product Safety Commission, 1988.
- United States. Department of the Army. *Explosives and demolitions*. Philadelphia: Normont Technical Publications, 1959.
- United States. Department of the Army. *Improvised munitions handbook*. Washington, DC: Department of the Army, 1969.
- United States. Department of the Army. *Unconventional warfare devices and techniques: Incendiaries*. Philadelphia: Department of the Army, 1966.
- United States. Department of Commerce. National Bureau of Standards. *Attacking the fire problem: A plan for action*. 1976 edition. Washington, DC: Superintendent of Documents GPO, 1976.
- United States. Department of Justice. Federal Bureau of Investigation. *Uniform crime reports: Arson incident reporting handbook*. Washington, DC: National Institute of Justice/ National Criminal Justice Reference Service Microfiche Program, 1986.
- United States. Department of Justice. National Institute of Law Enforcement and Criminal Justice. *Arson and arson investigation: Survey and assessment*. Washington, DC: U.S. GPO, 1977.
- United States. Department of Justice, National Institute of Law Enforcement and Criminal Justice. *Arson, a selected bibliography*. Washington, DC: U.S. Department of Justice, 1979.
- United States. Department of Justice. National Institute of Law Enforcement and Criminal Justice. *Arson prevention and control*. N-p. 1980.
- United States. Department of the Treasury. *Forensic handbook*. Washington, DC: Supt. of Docs, GPO, 1975.
- United States. Department of the Treasury. *Crime scene and evidence collection handbook*. United States Department of the Treasury, 1990.
- United States. Department of the Treasury. *Lesson plan: National wildfire investigation training program. Determining fire cause and origin*, Federal Law Enforcement Training Center, n.d.
- United States. Department of the Treasury. *Forensic handbook*. Washington, DC: Supt. of Docs, GPO, 1975.
- United States. Federal Emergency Management Agency. *Arson: The federal role in arson prevention and control; a report submitted to the Congress*. Washington, DC: FEMA, 1979.
- United States. Federal Emergency Management Agency. U.S. Fire Administration. *Arson resource directory*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1980.
- United States. Federal Emergency Management Agency. U.S. Fire Administration. *Arson resource directory*, second edition. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1982.
- United States. Fire Administration. *Anti-arson implementation kit*. N.p. 1980.
- United States. Fire Administration. *Arson: America's malignant crime. 5th annual conference proceedings*. Washington, DC: United States Fire Administration, 1980.
- United States. Fire Administration, Hartford Insurance Group. *Arson news media guidebook, a tool for arson task force public relations chairmen*. Hartford, CT: Hartford, n.d.
- United States. Fire Administration. *Arson prosecution: Issues and strategies*. Washington, DC: United States Fire Administration, 1988.
- United States. Fire Administration. *Arson resource directory*. Washington, DC: United States Fire Administration, 1988.
- United States. Fire Administration. *Child firesetter handbook: Ages 7-13*. Washington, DC: International Association of Fire Chiefs: United States Fire Administration, 1988.

- United States. Fire Administration. *Curious kids set fires*. Washington, DC: United States Fire Administration, 1989.
- United States. Fire Administration. *Fire and arson investigator's field index directory*. United States Fire Administration, 1990.
- United States. Fire Administration. *Fire prevention project 1980 to the United States Fire Administration*. Washington, DC: United States Conference of Mayors. Fire Prevention Project, 1981.
- United States. Fire Administration. *Innovative approaches for arson detection, investigation and prevention*. Washington, DC: United States Fire Administration, 1984.
- United States. Fire Administration. *Overview report to the Congress: Arson - the federal role in arson prevention and control*. Washington, DC: United States Fire Administration, 1979.
- United States. Fire Administration. *Report on the Arson Information Management Systems Conference*. Washington, DC: American Institutes for Research, 1979.
- United States. Fire Administration. *Report to the Congress: Arson. The federal role in arson prevention and control*. Washington, DC: United States Fire Administration, 1979.
- United States. Fire Administration. *A report to the President on progress in implementation of the national arson strategy*. Washington, DC: United States Fire Administration, 1981.
- United States. General Accounting Office. *Arson-for-profit: More could be done to reduce it*. Washington, DC: General Accounting Office, 1978.
- United States. Office of Strategic Services. *OSS sabotage and demolition manual*. Boulder, CO: Paladin Press, n.d.
- United States. Office of Technology Assessment. *Scientific validity of polygraph testing: A research review and evaluation*. Washington, DC: United States. Office of Technology Assessment, 1983.
- United States. Senate. *The anti-arson act of 1979*. Washington, DC: Committee on Governmental Affairs, Subcommittee on Intergovernmental Relations, 1979.
- United States. Senate. *Arson-for-hire. Hearings before the permanent subcommittee on investigations of the Committee on Governmental Affairs*. Washington, DC: The Senate, 1978.
- United States. Senate. *Arson in America: Report of the Committee on Governmental Affairs*. Washington, DC: The Senate, 1979.
- United States. Senate. *Permanent Subcommittee on Investigations of the Committee: study of the role of the insurance industry in dealing with arson-for-profit*. Washington, DC: United States Senate Permanent Subcommittee on Investigations of the Committee on Governmental Affairs, 1979.
- University of Wisconsin. *Electrical fires: Causes, investigation, analysis and prevention*. University of Wisconsin, 1984.
- Upper Arlington (Ohio). Fire Division. *Upper Arlington Fire Division's approach to juvenile firesetting*. Upper Arlington, OH: Fire Division, 1978.
- Urban Education Systems. *Profiles: A handbook on community arson prevention*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- Utz, P.J., M.L. Forst. *Problem analysis: Preventing incendiary forest fires in the west*. Berkeley, CA: University of California, 1978.
- VanSickle, D. *Warrantless search and seizure*. Albany, NY: New York State Division of Criminal Justice Services, Bureau of Prosecution Services, 1990.
- Victim Witness Assistance Project (American Bar Association). *Arson victims: Suggestions for a system response*. Washington, DC: Victim Witness Assistance Project, 1983.
- Virginia State Corporation Commission. State Fire Marshal Division. *Arson and related laws of Virginia*. Richmond, VA: Virginia State Corporation Commission, 1976.
- Vreeland, R.G. *The psychology of firesetting: A review and appraisal*. Washington, DC: U.S. National Bureau of Standards, 1978.
- Vreeland, R.G., M.B. Wailer. *Personality theory and firesetting: An elaboration of a psychological model*. Washington, DC: National Bureau of Standards, 1979.
- Vreeland, R.G. M.B. Wailer. *The psychology of firesetting: A review and appraisal*. Washington, DC: National Bureau of Standards, 1979.
- Waters, J.F. *Crime labs: The science of forensic medicine*. New York: Franklin Watts, Inc., 1979.
- Wecht, C.H. *Forensic sciences: Law/science, civil/criminal*. New York: Matthew Bender and Company, 1981.
- Weisman, H.M. *Arson control guide for volunteer fire departments*. Washington, DC: FEMA, 1981.
- Werne, N. *Legal resources for investigators and prosecutors*. Albany, NY: New York State. Office of Fire Prevention and Control, 1981.
- Weston, P.B., K.M. Wells. *Criminal investigation 'Basic perspectives' 2nd edition*. Englewood Cliffs, NJ: Prentice Hall, Inc., 1974.

- Wineman, P. *A target compound ratio approach to the detection of petroleum fuels and solvents in highly contaminated extracts of fire debris*. N.p. 1985.
- Wisconsin Department of Justice. *Wisconsin, Department of Justice, Division of Criminal Investigation, arson bureau annual report*, 1974. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1975.
- Wisconsin Department of Justice. *Wisconsin, Department of Justice, Division of Criminal investigation, Arson Bureau, annual report*, 1976. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1977.
- Wisconsin Department of Justice Criminal Investigation Division Arson Bureau. *Wisconsin Department of Justice, Division of Criminal Investigation, Arson Bureau, annual report*, 1978. N.p. 1979.
- Wolf, B. *Firehouse*. New York: Morrow, 1983.
- Wooden, W.S. *Children and arson*. New York: Plenum Press, 1984.
- Wooden, W.S., M.L. Berkey. *Children and arson: America's middle class nightmare*. New York: Plenum Press, 1984.
- Yallop, H.J. *Explosion investigation*. Harrowgate, England Forensic Science Society, Scottish Academic Press, 1980.
- Yallop, H.J., S.S. Kind. *Fire investigation*. Solihull, England: Alan Clift Associates, 1984.
- Yereance, R.A. *Electrical fire analysis*, Springfield, IL: Charles, C. Thomas Publishing Company, 1987.
- Zeek, R.M. *Introductory guide to explosives, handling and devices*. Edwards, CA: United States Air Force Systems Command, 1971.

JOURNALS

- Abuse of process: State Farm Fire and Casualty Company v. Taylor. *Arson Reporter* 9, no. 1-2 (1988): 16.
- Accountant-client privilege: People v. Simon. *Arson Reporter* 10, no. 3 (1989): 42-43.
- Admissibility of evidence: State of Minnesota v. Simonson. *Arson Reporter* 11, no. 10 (1990): 203-204.
- Admissibility of gas can/prosecutor's comments: Scherer v. State. *Arson Reporter* 11, no. 11 (1990): 210.
- Admission of confession, trial reference to unrelated charge, reference to polygraph test excessive. *Arson Reporter* 8, no. 1-3 (1987): 2-4.
- Admission of confession, admission of victims' photographs: Brown v. State. *Arson Reporter* 8, no. 1-3 (1987): 5-6.
- Agricultural heaters tied to confinement building fires. *Fire and Arson Investigator* 36, no. 4 (1986): 36.
- Aiding and abetting: Merged offenses: State v. Martinson. *Arson Reporter* 9, no. 5 (1988): 41-43.
- AIMS packages still available. *Fire Chief* 29, no. 6 (1985): 14.
- Alleged snipers also suspects in arsons. *Fire Control Digest* 13, no. 10 (1987): 8.
- America's worsening record of arson. *Fire Prevention* no. 199 (1987): 6.
- American sentenced in China. *Fire Command* 53, no. 1 (1986): 10.
- Analysis of soot. *Fire and Arson Investigator* 37, no. 2 (1986): 16.
- Another weapon against arsonists. *Fire and Arson Investigator* 37, no. 1 (1986): 13.
- Another year of progress against 'devil's night' arsonists. *Fire Control Digest* 14, no. 11 (1988): 4-5.
- Anti-arson efforts reported to have saved St. Paul money. *International Fire Chief* 51, no. 6 (1985): 15.
- Anti-arson grants awarded 17 community organizations. *Fire Control Digest* 12, no. 2 (1986): 3-4.
- Antiarson program targets children. *Rekindle* 14, no. 5 (1985): 14.
- Apartment fire in Dayton, Ky takes five lives. *Fire Control Digest* 14, no. 2 (1988): 7.
- Arson. *Fire and Arson Investigator* 38, no. 4 (1988): 13.
- Arson \$ loss climbs. *International Fire Fighter* 69, no. 3-4 (1986): 1.
- Arson and public buildings: What can be done? *Fire Prevention* 201 (1987): 5.
- Arson and the wildland/urban interface. *Wildfire Strikes Home* 2, no. 5 (1988): 11.
- Arson attacks a major cause of total large fire losses. *Fire* 79, no. 980 (1987): 6.
- Arson awards paid in two cases. *Fire and Arson Investigator* 38, no. 2 (1987): 14.
- Arson breakthrough at NBS. *International Fire Chief* 52, no. 10 (1986): 4.
- Arson busters. *Fire Chief* 29, no. 12 (1985): 14-15.
- Arson claims 705 civilian lives in 1986. *Fire Chief* 31, no. 12 (1987): 8.
- Arson claims 96 lives at Dupont Plaza Hotel. *Fire Protection (South Africa)* 14, no. 1 (1987): 14.
- Arson conviction award. *Fire and Arson Investigator* 36, no. 3 (1986): 22.

Arson conviction: Evidence supports verdict and sentence. *Fire and Arson Investigator* 37, no. 3 (1987): 16.

Arson danger highlighted at seminar on fire protection in old buildings. *Fire* 80, no. 984 (1987): 14.

Arson data, *Washington Scene* 10, no. 1 (1987): 3.

Arson data collection update. *National Fire and Arson Report* 5, no. 4 (1987): 1.

Arson data program implemented. *Fire Engineering* 140, no. 4 (1987): 16.

Arson deaths. *Fire Chief* 30, no. 11 (1986): 6.

Arson declines, but still leading cause of fire damage. *Voice* 18, no. 7 (1989): 18.

Arson devastates forests in Israel. *IAFC On Scene* 2, no. 15 (1988): 4.

Arson facts, *Fire Chief* 30, no. 2 (1986): 10.

Arson fire and losses fall in 1989. *National Fire and Arson Report* 8, no. 6 (1990): 4-5.

Arson fire claims 9 lives. *National Fire and Arson Report* 7, no. 3 (n.d.): 3.

Arson fires fall, but losses are level. *National Fire and Arson Report* 7, no. 6 (1989): 1+.

Arson fires increase in Texas, *Fire Control Digest* 13, no. 3 (1987): 9.

Arson fires, deaths, and losses continue decline in 1989. *Hazard Monthly* 11, no. 1 (1991): 1+.

Arson for hire: State of New Jersey v. Anthony J. Chiarulli. *Arson Reporter* 10, no. 11 (1989): 166-167.

Arson in Alaska up. *Fire Command* 54, no. 3 (1987): 9.

Arson in schools. *Fire and Security Protection* 50, no. 593 (1987): 3.

Arson incidents on rise says new Maryland report. *Fire Control Digest* 12, no. 11 (1986): 7-8.

Arson Information Management System software available. *Rekindle* 14, no. 7 (1985): 21.

Arson investigation software available. *International Fire Chief* 51, no. 3 (1985): 5.

Arson investigation: A practical approach. *Communications Link* 9, no. 10 (1988): 38.

Arson leading cause of fire damage to property last year. *Fire Control Digest* 12, no. 10 (1986): 1+.

Arson leading cause of fire property damage. *Building Official and Code Administration* 20, no. 6 (1986): 6-7.

Arson leading cause of property damage. *Washington Scene* 9, no. 41 (1986): 1-2.

Arson leading cause of property damage. *International Fire Chief* 52, no. 12 (1986): 5-6.

Arson leaves 2 lives in shambles. *Communications Link* 6, no. 2 (1985): 3.

Arson number one cause of fire-related property damage. *International Fire Fighter* 72, no. 4 (1989): 11.

Arson of owned property: State of Arizona v. Brent Newfield. *Arson Reporter* 10, no. 11 (1989): 181-185.

Arson of spouse's property: State v. Regan. *Arson Reporter* 9, no. 10 (1988): 133.

Arson penalties in 'ye-good-old-days'. *Minnesota Fire Chief* 22, no. 2 (1985): 62.

Arson rate declines, but death toll rises. *IAFC On Scene* 3, no. 10 (1989): 4.

Arson reward fund. *Fire Command* 54, no. 4 (1987): 10.

Arson statistical program commences. *Fire and Arson Investigator* 37, no. 1 (1986): 15.

Arson statistics begin to rise in Maryland. *Fire Control Digest* 11, no. 7 (1985): 2-3.

Arson strike force design meeting. *International Fire Chief* 51, no. 2 (1985): 9.

Arson subject of FEMA teleconference. *International Fire Chief* 52, no. 1 (1986): 9.

Arson subject of next FEMA teleconference. *Washington Scene* 8, no. 48 (1985): 2-3.

Arson suspect indicted. *Fire Control Digest* 14, no. 11 (1988): 2.

Arson suspected in 96-death hotel fire. *Fire International* 11, no. 103 (1987): 20.

Arson suspected in New Jersey city four-block tire tragedy. *Fire Control Digest* 11, no. 10 (1985): 5-6.

Arson teleconference held. *Fire Control Digest* 11, no. 12 (1985): 6-7.

Arson/felony murder: State of Washington v. Leech. *Arson Reporter* 11, no. 5 (1990): 127-130.

Arson: A white, middle-class epidemic. *Fire Command* 52, no. 4 (1985): 17.

Arson: Legal considerations-teleconference information sheet. *Communications Link* 6, no. 36 (1985): 36.

Arson: No clear trend. *Sentinel* 42, no. 4 (1985): 14-15.

Arson: Not only for profit. *Record* 61, no. 3 (1984): 14-20.

Arsonist sentenced. *Fire and Arson Investigator* 37, no. 2 (1986): 15.

Arsonist sentenced to 625 years after multiple death fire. *International Fire Fighter* 68, no. 9-10 (1985): 1+.

Arsonist/killer gets 15 years. *Minnesota Fire Chief* 22, no. 4 (1986): 35.

Arsonists sentenced. *Fire* 80, no. 986 (1987): 1.

Arsons concern Seattle Officials, *IAFC On Scene* 1, no. 9 (1987): 2.

Articles of evidence. *National Fire and Arson Report* 5, no. 2 (1987): 4-5.

Articles of evidence. *National Fire and Arson Report* 5, no. 3 (1987): 4-5+.

Ask Laps. *National Fire and Arson Report* 5, no. 2 (1987): 1+.

ASTM adopts fire debris analysis standards. *National Fire and Arson Report* 9, no. 1 (1991): 8.

ATF's efforts prevent payment of millions in fraudulent insurance claims. *Fire and Arson Investigator* 36, no. 3 (1986): 24.

Attention and security fire: Holland v. United States Fidelity and Guaranty Company. *Arson Reporter* 11, no. 12 (1990): 221-222.

Attorney conflict of interest: State v. Allen. *Arson Reporter* 10, no. 4 (1989): 61-62.

Attorney fees/intentional burning: Maquire v. Merrimack Mutual Insurance Company. *Arson Reporter* 11, no. 5 (1990): 137-139.

Automobile as "building": Commonwealth v. Cross. *Arson Reporter* 10, no. 2 (1989): 23-24.

Bad faith claim: Neal v. State Farm Fire and Casualty Company. *Arson Reporter* 11, no. 9 (1990): 199.

Bad faith refusal. *Fire and Arson Investigator* 36, no. 12 (1985): 44.

Bad faith reversal. *Fire and Arson Investigator* 37, no. 4 (1987): 18.

Bad faith summary judgement: Williamson v. Emasco Insurance Company. *Arson Reporter* 9, no. 11 (1988): 160-161.

Bad Faith: Conti v. Republic Underwriters Insurance Company. *Arson Reporter* 11, no. 1 (1990): 189-195.

Bad faith: Marino v. State Farm Fire and Casualty Insurance Company. *Arson Reporter* 11, no. 5 (1990): 140-143.

Bad faith: State Farm Fire and Casualty Company v. Balmer. *Arson Reporter* 11, no. 2 (1990): 56-61.

Bad faith: Thompson v. Shelter Mutual Insurance Company. *Arson Reporter* 10, no. 6 (1989): 89-96.

Bad situation just got worse for the Illinois arsonist. *Fire and Arson Investigator* 36, no. 4 (1986): 31.

Baseboard heaters. *Fire and Arson Investigator* 35, no. 3 (1985): 51-52.

Beauty is the beast: Rural fires spark call to burn arsonists. *Wildfire Strikes Home* 2, no. 1 (1988): 9.

Being more than just sorry. *American Fire Journal* 37, no. 4 (1985): 5.

BJA offering free training in arson control, management. *Fire Control Digest* 13, no. 6 (1987): 7.

Boehne takes on added responsibilities at NFA. *Fire and Arson Investigator* 39, no. 1 (1988): 29.

Bombs: Military and clandestine military ordinance. *California Fire Arson Investigator* 2, no. 1 (1991): 12-15.

Breach of policy provisions: Allison v. State Farm Fire and Casualty Company. *Arson Reporter* 10, no. 6 (1989): 85-88.

Burden of proof: Foster v. State Farm Fire and Casualty Company. *Arson Reporter* 11, no. 1 (1990): 195-198.

Burden of proof: Good faith: Verrostro et al. v. Middlesex Insurance Company. *Arson Reporter* 9, no. 5 (1988): 47-49.

Burden of proof: Innocent spouse rule: McGory v. Allstate Insurance Company. *Arson Reporter* 9, no. 6 (1988): 66-68.

Burden of Proof: J.C. Penney Insurance Company v. Varney. *Arson Reporter* 9, no. 9 (1988): 122-123.

Bum data collected to track arsonists. *Fire Command* 52, no. 9 (1985): 8.

Bum reporting law now in effect in New York State. *Fire Engineering* 139, no. 1 (1986): 16.

Bum reporting system working. *Washington Scene* 9, no. 32 (1986): 3-4.

Burning of our cities: Confronting the problem of arson control. *Communications Link* 8, no. 22 (1987): 95.

Bums must be reported in New York State. *International Fire Chief* 52, no. 2 (1986): 9.

California enacts child arson law. *Washington Scene* 8, no. 42 (1985): 3-4.

California enacts child arson law. *International Fire Chief* 51, no. 12 (1985): 10.

California sets up task force on juvenile arson, firesetting. *Fire Control Digest* 12, no. 3 (1986): 6.

California signs child arson bill. *Fire Chief* 29, no. 11 (1985): 30.

California urges Congress to conduct juvenile arson hearings. *International Fire Chief* 51, no. 5 (1985): 11.

California: Arson hits San Diego. *Fire Chief* 29, no. 9 (1985): 18.

Cancellation of policy: Quintana v. Tennessee Farmers Mutual Insurance Company. *Arson Reporter* 10, no. 8 (1989): 121-125.

Cars are burned for same reasons as buildings. *Fire and Arson Investigator* 36, no. 4 (1986): 32.

Cars torched to battle fraud. *Fire Command* 54, no. 11 (1987): 15.

Causal connection: Morales v. City of New York and Feliz v. City of New York. *Arson Reporter* 9, no. 3 (1988): 27-28.

Change in arson statute proposed. *Minnesota Fire Chief* 24, no. 4 (1988): 35.

Chemical data now available for hazardous material incident scene. *Fire and Arson Investigator* 37, no. 4 (1987): 17.

Child arson task force bill signed into law in California. *Fire Control Digest* 11, no. 12 (1985): 7.

Child endangerment law: People v. Odom. *Arson Reporter* 11, no. 11 (1990): 211.

Children see fires as exciting. *Fire and Arson Investigator* 37, no. 3 (1987): 19.

Circumstantial evidence - change of judge: Campbell v. State Farm Fire and Casualty. *Arson Reporter* 10, no. 2 (1989): 29-31.

Circumstantial evidence/sufficiency of evidence: *People of the State of New York v. Link. Arson Reporter* 11, no. 5 (1990): 120-122.

Circumstantial evidence: *South Terrebonne Feed and Seed v. State Farm Insurance Company. Arson Reporter* 10, no. 8 (1989): 125-127.

Circumstantial evidence: *State of Minnesota v. Melvin Dale Rewitzer. Arson Reporter* 12, no. 1 (1991): 3.

Circumstantial evidence: *State of Ohio v. Donald W. Liles. Arson Reporter* 11, no. 2 (1990): 45-48.

Circumstantial evidence: *State of Tennessee v. Alonso and Estepp. Arson Reporter* 11, no. 5 (1990): 130-133.

Circumstantial evidence: *State of West Virginia v. Plumley. Arson Reporter* 10, no. 12 (1989): 25-26.

City dwellers offered manual on how to fight arson. *Fire Control Digest* 11, no. 2 (1985): 6-7.

City firefighter charged in fatal fire. *Fire Control Digest* 13, no. 10 (1987): 7.

City sues arson racketeers. *International Fire Chief* 52, no. 3 (1986): 9.

Civil cases: Innocent co-insured; insured contract; tenancy by entirety. *Fire and Arson Investigator* 35, no. 4 (1985): 17.

Clergyman privilege: *Rutledge v. State. Arson Reporter* 9, no. 9 (1988): 120-122.

Coerced confession: *State v. Gilkey. Arson Reporter* 8, no. 7-12 (1987): 29-30.

Collateral consequences of guilty plea: restitution: *State v. Vera. Arson Reporter* 9, no. 11 (1988): 157-158.

Collateral estoppel: *In Re Dunn, Debtor, State Farm Fire and Casualty Company v. Dunn, U.S. Arson Reporter* 10, no. 2 (1989): 31-34.

Combined efforts help fight against wildland arson. *Fire Control Digest* 11, no. 10 (1985): 5.

Committee to review Ohio Bum Reporting Law. *Fire Control Digest* 12, no. 12 (1986): 7.

Common knowledge/judicial notice: *Jerita Bella v. The State of Texas. Arson Reporter* 11, no. 7 (1990): 172-174.

Computer assisted investigations. *National Fire and Arson Report* 5, no. 2 (1987): 1.

Computer crackdown. *Fire Command* 52, no. 8 (1985): 13.

Computers help arson investigator solve more crimes. *Fire Control Digest* 11, no. 4 (1985): 8-9.

Condition of probation: *People v. Watkins. Arson Reporter* 8, no. 1-12 (1987): 25-26.

Conspiracy claim: *Oliver v. State Farm. Arson Reporter* 11, no. 11 (1990): 213.

Copper LP gas line corrosion. *Fire and Arson Investigator* 38, no. 2 (1987): 17.

Corpus delicti of arson: *People of the State of Illinois v. Darne11 Lawson. Arson Reporter* 11, no. 2 (1990): 48-50.

Corroboration of accomplice: newly discovered evidence: *State v. Adams. Arson Reporter* 9, no. 6 (1988): 59-60.

Corroboration of confession: *Thomas v. State. Arson Reporter* 9, no. 4 (1988): 32-34.

Court brief. *Fire Command* 53, no. 12 (1986): 13.

Court decisions. *Fire and Arson Investigator* 36, no. 3 (1986): 23.

CPSC and kerosene heaters. *Fire and Arson Investigator* 36, no. 3 (1986): 24.

Cracking down on arson for profit. *Building Design and Construction* 24, no. 9 (1983): 29.

Crime in these United States. *Fire and Arson Investigator* 39, no. 2 (1988): 30-31.

Criminal cases of interest. *Fire and Arson Investigator* 34, no. 3 (1984): 34-35.

Criminal cases: Arrest; confessions; probable cause; Miranda. *Fire and Arson Investigator* 35, no. 4 (1985): 17-18.

Custodial interrogation: *Meek v. State. Arson Reporter* 9, no. 3 (1988): 24-25.

Damages: *Giovannitti v. Nationwide Insurance Company. Arson Reporter* 9, no. 8 (1988): 107-110.

Deaths in an arson fire stimulate fund. *Fire and Arson Investigator* 37, no. 4 (1987): 20.

Decrease expected in number of Texas certified investigators. *Fire Control Digest* 12, no. 8 (1986): 8.

Defective trial information: Exculpatory denial: *People v. Gerdes. Arson Reporter* 9, no. 9 (1988): 117-119.

Deliberately set wildfires cause Californians concern. *Emergency Preparedness News* 12, no. 15 (1988): 118.

Destruction of evidence: *State v. Murray. Arson Reporter* 8, no. 7-12 (1987): 22-23.

Devil's night revisited. *Fire Command* 52, no. 1 (1985): 34-36.

Did you get a statement? Why not? *Fire and Arson Investigator* 36, no. 1 (1985): 38+.

Discovery of state's expert witness, evidence of defendants financial circumstances, authentication. *Arson Reporter* 8, no. 1-3 (1987): 6-7.

Dog latest weapon in arson war. *International Fire Fighter* 72, no. 3 (1989): 17.

Dogs trained to detect arson. *Minnesota Fire Chief* 24, no. 4 (1988): 16.

Double jeopardy: *Westover v. State. Arson Reporter* 9, no. 4 (1988): 35-36.

Doubletree hotel fire New Orleans, Louisiana. *Fire and Arson Investigator* 38, no. 4 (1988): 11.

Dwelling house: *State v. Glenn. Arson Reporter* 10, no. 1 (1989): 3-4.

Effect of a guilty plea: *Fleck v. State Farm Insurance Companies. Arson Reporter* 11, no. 9 (1990): 198.

Eight sites to be selected to offer arson technical assistance and training. *Fire Control Digest* 12, no. 5 (1986): 7-8.

Electric heat tape hazards: CPSC issues warning. *National Fire and Arson Report* 7, no. 1 (1989): 10.

Electrical flaws cited in General Motors cars. *Fire and Arson Investigator* 38, no. 2 (1987): 18.

Eleven light aircraft destroyed in arson attack: Aircraft manufacturer Old Sarum, Salisbury Wiltshire. *Fire Prevention* no. 201 (1987): 43-46.

Equal protection: State v. Pavioovich. *Arson Reporter* 10, no. 2 (1989): 26-27.

Equitable lien priority: Home federal savings and loan association of Centralia v. Cook. *Arson Reporter* 9, no. 8 (1988): 101-104.

Establishes arson hot line. *Fire Chief* 29, no. 2 (1985): 22.

European moves to control arson. *Fire and Materials* 10, no. 3-4 (1986): 179.

Evidence of insured's suicide, insurable interest: Seals, Inc. v. Tioga County Grange Mutual Insuran. *Arson Reporter* 8, no. 1-3 (1987): 13-14.

Evidence of lack of criminal prosecution: Figa v. R.V.M.P. Corporation, *Arson Reporter* 9, no. 1-2 (1988): 16.

Evidence of misdeeds: People v. Musitief. *Arson Reporter* 11, no. 10 (1990): 204.

Evidence of non-prosecution or acquittal on criminal charges inadmissible: Insurer's burden of proof. *Arson Reporter* 8, no. 4-5 (1987): 9-13.

Evidence of other fires, reference to polygraph test: Kinser v. state. *Arson Reporter* 8, no. 1-3 (1987): 9-10.

Evidence submission tips help Ohio's arson investigators. *Fire Control Digest* 12, no. 7 (1986): 7-8.

Evidence that criminal arson charges were not brought: Kelly's Auto parts No. 1 Inc. v. Boughton. *Arson Reporter* 8, no. 1-3 (1987): 15-16.

Evidence/examination under oath: Commonwealth of Pennsylvania v. Ball. *Arson Reporter* 11, no. 1 (1990): 21 1-215.

Evidence/polygraphy examination: Underwood v. Colonial Penn Insurance Company. *Arson Reporter* 11, no. 1 (1990): 203-206.

Evidence: First Southwest Lloyd's Insurance Company v. Macdowell. *Arson Reporter* 10, no. 5 (1989): 79-82.

Examination under oath: Hansley v. Nationwide Mutual Fire Insurance Company, *Arson Reporter* 10, no. 3 (1989): 51-53.

Examination under oath: Pervis v. State Farm Fire and Casualty Company, *Arson Reporter* 11, no. 6 (1990): 152-156.

Excessive sentence: State v. Newsome. *Arson Reporter* 9, no. 5 (1988): 40-41.

Excessive sentence: State v. Thomas. *Arson Reporter* 10, no. 2 (1989): 24-26.

Excessiveness of sentence: State v. Lemelle. *Arson Reporter* 8, no. 1-3 (1987): 2.

Exclusion must be clearly stated. *Fire and Arson Investigator* 37, no. 2 (1986): 14.

Expand AIMS software. *Fire Chief* 29, no. 7 (1985): 6.

Expert assistance: People v. Evans. *Arson Reporter* 9, no. 12 (1988): 177-178.

Expert testimony/heresay testimony: State of Main v. Anthony D. Naoum and Marion Gidney. *Arson Reporter* 11, no. 3 (1990): 65-68.

Expert testimony/prior acts: State of North Carolina v. English. *Arson Reporter* 10, no. 9 (1989): 134-137.

Expert testimony/sufficiency of the evidence: State of Missouri v. Michael E. Letcher. *Arson Reporter* 11, no. 3 (1990): 80-85.

Expert testimony: State of North Carolina v. William Billy Greime. *Arson Reporter* 11, no. 3 (1990): 75-77.

Expert testimony: State of Rhode Island v. Ronald Dame. *Arson Reporter* 10, no. 11 (1989): 177-181.

Expert testimony: Wright v. United Services Automobile Association. *Arson Reporter* 11, no. 3 (1990): 85-88.

Experts call pyromaniacs passive outcasts who seek power. *Fire and Arson Investigator* 38, no. 2 (1987): 13.

Explosions. *Fire and Arson Investigator* 38, no. 2 (1987): 33-37.

Extension cords involved in 20 house fires daily. *Fire and Arson Investigator* 35, no. 4 (1985): 21.

Extension cords involved in house fires. National *Fire and Arson Report* 3, no. 5 (1985): 15.

Extent of 'injury': Admissibility of plea discussions: single act - multiple offenses: People v. Han. *Arson Reporter* 9, no. 10 (1988): 133-135.

Extent of damage/sufficiency of evidence: People v. Fleming. *Arson Reporter* 11, no. 9 (1990): 194.

Face of crime. *Journal of Insurance* 42, no. 2 (1981): .

Fact sheet for the 1986 Independent Insurance Agents of Omaha, Inc. put an arsonist away for pay. *Fire and Arson Investigator* 36, no. 4 (1986): 35.

Fair costs set. *Minnesota Fire Chief* 24, no. 2 (1987): 27.

Fallen firefighters memorial scheduled for Ocotber 15. *Fire and Arson Investigator* 40, no. 1 (1989): 52.

Fatal fire: Accidental, homicide, or suicide? *Fire and Arson Investigator* 37, no. 3 (1987): 43-44.

Fraud and misrepresentation: Home Insurance Company of Indiana v. Paul Karantonis, et al. *Arson Reporter* 11, no. 2 (1990): 50-54.

Faulty indictment/multiple charges: Commonwealth of Massachusetts v. Anolik. *Arson Reporter* 10, no. 12 (1989): 33-37.

Faulty indictment/sufficiency of the evidence/lesser included offense: *State of West Virginia v. Rod. Arson Reporter* 10, no. 12 (1989): 15-22.

Faulty indictment: *Sweet v. State. Arson Reporter* 10, no., 12 (1989): 10-12.

FBI arson program begins. *Fire Chief* 30, no. 12 (1986): 39.

FBI begins major arson data effort. *International Fire Chief* 53, no. 1 (1987): 5.

FBI begins major arson data effort. *Washington Scene* 9, no. 48 (1986): 2.

Federal arson-related statutes. *National Fire and Arson Report* 6, no. 5 (1988): 13.

Federal civil justice system. *National Fire and Arson Report* 6, no. 3 (1988): 1+.

Federal indictments on arson ring. *National Fire and Arson Report* 5, no. 4 (1987): 3+.

FEMA funds community organization. *National Fire and Arson Report* 3, no. 2 (1985): 15.

FEMA training office will undergo review. *Fire and Arson Investigator* 39, no. 1 (1988): 28.

Fifth Amendment: Sixth amendment: Double jeopardy: *State v. Sargent. Arson Reporter* 8, no. 7-12 (1987): 23-25.

5th amendment, 6th amendment, breach of plea agreement: *United States v. Roberts. Arson Reporter* 10, no. 3 (1989): 45-48.

Fight against wildland arson launched. *Minnesota Fire Chief* 21, no. 4 (1985): 34.

Fighting arson still FPA's priority. *Fire* 80, no. 985 (1987): 6.

Fighting the fire-raisers: Councils take initiative. *Fire* 80, no. 984 (1987): 7.

Fire Administration to give grants for arson-prevention programs. *Emergency Preparedness News* 9, no. 6 (1985): 46.

Fire development. *Fire and Arson Investigator* 37, no. 3 (1987): 62-63.

Fire fighter charged with setting 11 fires in Pennsylvania. *IAFC On Scene* 5, no. 18 (1991): 1.

Fire fighter deaths led to change in federal arson code. *International Fire Chief* 51, no. 3 (1985): 4-5.

Fire in suspected "crack" house kills four. *Fire Control Digest* 14, no. 9 (1988): 2.

Fire in the tunnel. *California Fire Arson Investigator* 2, no. 2 (1991): 32-35.

Fire incidents, deaths, arson, losses all down in 1986. *Minnesota Fire Chief* 24, no. 2 (1987): 18.

Fire insurer's responsibility questioned in arson case. *Fire and Arson Investigator* 38, no. 2 (1987): 17.

Fire investigation from the consultant's point of view. *Fire and Arson Investigator* 39, no. 2 (1988): 23-28.

Fire investigation in Georgia is on the move. *Fire and Arson Investigator* 36, no. 4 (1986): 34.

Fire investigation report: Expert testimony: *Bloomgren v. Fire Insurance Exchange. Arson Reporter* 8, no. 7-12 (1987): 41-42.

Fire loss figures for 1982 exceeded 1 million daily. *Fire* 75, no. 933 (1983): 508.

Fire Science Laboratory dedicated at Worcester Polytechnic Institute. *Fire and Arson Investigator* 38, no. 4 (1988): 18.

Firefighters' deaths investigated. *Occupational Health and Safety* 58, no. 1 (1989): 7.

Firehawk program to expand through \$120,000 in grants to stop juvenile arson. *Fire Control Digest* 12, no. 3 (1986): 7-8.

Fireman's Rule: *Ranziano v. Lincoln Property Company, et-al. Arson Reporter* 9, no. 3 (1988): 26-27.

Five fire executives named to Harvard training program. *Fire and Arson Investigator* 39, no. 1 (1988): 29.

Florida Advisory Committee on Arson Prevention. *Fire and Arson Investigator* 39, no. 1 (1988): 30.

Florida's latest responder: An arson lab that travels. *Fire Engineering* 140, no. 6 (1987): 14.

Florida's new arson mobile unit to speed up investigations. *Fire Command* 54, no. 8 (1987): 13.

Former boyfriend accused of setting fire near Rossville. *Fire and Arson Investigator* 28, no. 2 (1987): 18.

\$48.5 million settlement in Stouffer's Inn fire. *Building Design and Construction* 25, no. 7 (1984): 5.

Four arrested for starting China's largest forest fire. *Emergency Preparedness News* 11, no. 11 (1987): 82.

Four Charmglow bug killers recalled for fire hazard. *Fire and Arson Investigator* 40, no. 4 (1990): 60.

Four major city neighborhoods report on AIMS test progress. *Fire Control Digest* 12, no. 3 (1986): 6-7.

FPA large fire analysis for 1986. *Fire Prevention* no. 212 (1988): 24-31.

FPA large fire analysis for 1987. *Fire Prevention* no. 223 (1989): 21-28.

Fraud and false swearing: *Astoria Quality Drugs, Inc. v. United Pacific Insurance Company of New York. Arson Reporter* 11, no. 8 (1990): 190.

Fraud: *Mutual of Enumclaw Insurance v. Cox. Arson Reporter* 9, no. 8 (1988): 94-97.

Fraudulent claim: *Christensen v. State Farm Mutual Auto Insurance Company. Arson Reporter* 11, no. 1 (1990): 187-189.

From canines to counseling - combating arson. *Minnesota Fire Chief* 27, no. 2 (1990): 12-13.

Frustration in New Zealand. *Fire and Arson Investigator* 37, no. 3 (1987): 16.

Gas chromatography: Translated statements: *State v. Huynh. Arson Reporter* 8, no. 7-12 (1987): 26-27.

Global fire problem. *Fire Prevention* no. 156 (1983): 20-23.

Greater use of FP systems needed to reduce arson losses. *Fire Surveyor* 16, no. 3 (1987): 16.

Guidelines for laboratories performing chemical and instrumental analysis of fire debris samples. *Fire and Arson Investigator* 38, no. 4 (1988): 45-48.

Hearing closed to media: Johnson Newspaper Corp. v. Clary Circuit Court Judge. *Arson Reporter* 12, no. 1 (1991): 2.

Hearing held for USFA Senate authorization. *Fire and Arson Investigator* 39, no. 1 (1988): 28-29.

Hearsay evidence: State of Minnesota v. Watts. *Arson Reporter* 11, no. 4 (1990): 101-104.

Hearsay: Bianchi v. State. *Arson Reporter* 9, no. 9 (1988): 119-120.

Heat transfer in fires. *Fire and Arson Investigator* 37, no. 3 (1987): 61.

Her case is false alarm. *Communications Link* 7, no. 46 (1986): .

Historic Building: Mar Lodge, Braemar, Aberdeenshire. *Fire Prevention* 243, no. 39 (1991): 39.

Hotline works. *Fire Chief* 29, no. 2 (1985): 18.

House restores funding to U.S. Fire Administration. *Fire and Arson Investigator* 40, no. 2 (1989): 20.

Hypnotic memory enhancement. *Progressive Forensics* 1, no. 2 (1984): 6-11.

IAAI speaks. *Communications Link* 7, no. 22 (1986): 22.

ICAC joins forces with the Federal Arson Task Force. *National Fire and Arson Report* 5, no. 4 (1987): 8.

Identifying evidence of flammable liquids. *National Fire and Arson Report* 6, no. 1 (1988): 6-7.

Illinois v. Rodriguez. *California Fire Arson Investigator* 1, no. 4 (1991): 62-63.

Implementing a partnership in fire and arson prevention through the creation. *Rekindle* 14, no. 4 (1985): 21.

Implementing a partnership in fire and arson prevention through the creation. *Rekindle* 14, no. 3 (1985): 22.

Improper investigation/bad faith: United Services Automobile Association v. Wase. *Arson Reporter* 10, no. 9 (1989): 137-148.

Incendiary and suspicious fires. *Southern Building* (1987): 39.

Incendiary Fires I. *Command Performance* 3, no. 7 (1987): 1-4.

Inculpatory statements: The people of the state of New York v; Agnes Todd. *Arson Reporter* 10, no. 11 (1989): 175-177.

Inconsistent verdicts: Commonwealth v. Harrison. *Arson Reporter* 9, no. 1-2 (1988): 7-8.

Incriminating admissions: United States v. White. *Arson Reporter* 10, no. 4 (1989): 56-57.

Indicators of arson for profit or fire-related fraud. *National Fire and Arson Report* 5, no. 4 (1987): 7.

Industrial indemnity fights against school arsonists. *Fire Control Digest* 14, no. 11 (1988): 2-3.

Ineffective assistance of counsel: Unconstitutional statute: Denial of fair trial: People v. Brent. *Arson Reporter* 9, no. 3 (1988): 19-22.

Inhabited structure: People v. Jones. *Arson Reporter* 9, no. 4 (1988): 34-35.

Injury reporting law aimed at arsonist. *International Fire Fighter* 69, no. 1-2 (1986): 15.

Innocent co-insured/law of the case: Sales v. State Farm Fire and Casualty Company. *Arson Reporter* 11, no. 6 (1990): 156-159.

Innocent co-insured/mortgagee: Steven John Ramon and Annette Ramon v. Farm Bureau Insurance Company. *Arson Reporter* 11, no. 7 (1990): 177-184.

Innocent co-insured: Childers v. State Farm Fire and Casualty Company. *Arson Reporter* 11, no. 10 (1990): 206.

Innocent co-insured: Mary Ponder v. Allstate Insurance Company v. David Ponder. *Arson Reporter* 11, no. 2 (1990): 61-63.

Innocent co-insured: Sales v. State Farm Fire and Casualty Company. *Arson Reporter* 9, no. 8 (1988): 104-107.

Innocent co-insured: State Farm Fire and Casualty Insurance Company v. Walker. *Arson Reporter* 11, no. 8 (1990): 191.

Innocent co-insured: Susan Vance v. Pekin Insurance Company and Pekin Insurance Company v. Donald A.. *Arson Reporter* 11, no. 7 (1990): 174-177.

Innocent co-insured: Woodhouse v. Farmers Union Mutual Insurance Company. *Arson Reporter* 11, no. 2 (1990): 54-56.

Innocent spouse recovers. *Fire and Arson Investigator* 38, no. 2 (1987): 13.

Innocent spouse/false swearing/sufficiency of the evidence: Fittje v. Calhoun County. *Arson Reporter* 11, no. 4 (1990): 113-119.

Insanity preventing intent: Preston v. Granger, et.al. *Arson Reporter* 9, no. 1-2 (1988): 15.

Inspection of juvenile records: Ex parte State Farm Fire and Casualty Company v. United States Fidelity. *Arson Reporter* 9, no. 9 (1988): 126-128.

Insufficiency of evidence: People v. Chapman. *Arson Reporter* 9, no. 3 (1988): 22-24.

Insurance agents donate anti-arson van. *International Fire Chief* 51, no. 6 (1985): 16.

Insurance Committee for Arson Control publication can help a community organize an arson task force. *Rekindle* 16, no. 9 (1987): 11.

Insurance industry success story: Arson reporting immunity laws. *Fire and Arson Investigator* 36, no. 12 (1985): 3-5.

Insurance personnel complete ATF school. *National Fire and Arson Report* 5, no. 2 (1987): 8.

Insurer's bad faith: Vail v. Texas Farm Bureau Mutual Insurance Company. *Arson Reporter* 9, no. 6 (1988): 69-71.

Insurer's bad faith; Damages: Red Cedars, Inc. v. Westchester Fire Insurance Company. *Arson Reporter* 9, no. 8 (1988): 82-90.

International Association of Arson Investigators Inc. annual meeting. *Fire and Arson Investigator* 37, no. 4 (1987): 5-7.

International Association of Arson Investigators, Inc. annual meeting. *Fire and Arson Investigator* 36, no. 4 (1986): 4-8+.

International event: Fairfax County training Singapore FD. *Fire Control Digest* 12, no. 2 (1986): 5.

Interview with Bob and Elaine May by the Fire and Arson Investigator. *Fire and Arson Investigator* 37, no. 3 (1987): 6-8.

Interviewing fire department personnel. *National Fire and Arson Report* 5, no. 5 (1987): 6-7.

Investigators believe firebombings were "random incidents". *Fire Control Digest* 14, no. 9 (1988): 2.

Investigators: Know thy cause. *National Fire and Arson Report* 7, no. 1 (1989): 1.

It's not just cities: Rural arson growing. *Fire Control Digest* 12, no. 1 (1986): 8.

It's war in California against arson-caused wildland fires. *Fire Control Digest* 12, no. 2 (1986): 4-5.

Japanese have a way with arsonists. *Fire Prevention* no. 197 (1987): 11.

Joint campaign against rural fires underway. *Fire and Arson Investigator* 38, no. 4 (1988): 13.

Judge kills conviction in fatal Stouffer's fire. *The Sun* (1982): A1+.

Judge to jury: Overruled. *Newsweek* (1982): 59.

Jurisdiction/interstate commerce: United States v. Medeiros. *Arson Reporter* 11, no. 4 (1990): 90-95.

Jurisdiction: United States of America v. Mayberry. *Arson Reporter* 11, no. 3 (1990): 77-80.

Jury clears restaurateur in 82 fire. *Fire and Arson Investigator* 37, no. 1 (1986): 14.

Jury instructions - expert testimony: Neff, et al. v. Knisely, et al. *Arson Reporter* 10, no. 1 (1989): 16-20.

Jury instructions: Quam v. General Accident Insurance Company of North America. *Arson Reporter* 8, no. 7- 12 (1987): 38-39.

Justification: The people of the state of New York v. Russell. *Arson Reporter* 11, no. 6 (1990): 147-148.

Juvenile arsonists a problem. *Fire and Arson Investigator* 36, no. 4 (1986): 32.

Juvenile firesetter PSA available. *IAFC On Scene* 1, no. 9 (1987): 4.

Juvenile firesetters studied in Rochester. *International Fire Chief* 51, no. 2 (1985): 10.

Juveniles dominate arrests. *Link* 10, no. 18 (1989): 2.

K-9's give arson investigators new tool. *National Fire and Arson Report* 6, no. 6 (1988): 1+.

Kerosene heaters stir controversy. *Fire and Arson Investigator* 35, no. 4 (1985): 20.

King's Cross inquiry hears evidence of possible arson. *Fire* 80, no. 994 (1988): 6+.

Kodak police KAR information system responds to law enforcement's needs. *National Fire and Arson Report* 3, no. 5 (1985): 12+.

La Bomba, evidence of refusal to take polygraph exam: U.S. v. Stackpole. *Arson Reporter* 8, no. 1-3 (1987): 10-11.

Landlord and building manager indicted for death of tenant. *Fire and Arson Investigator* 37, no. 1 (1986): 14.

Large fire trends rising. *Fire and Materials* 10, no. 3-4 (1986): 179.

Last year, arson and suspected arson. *Emergency Preparedness News* 11, no. 23 (1987): 177.

Latest arson investigation techniques revealed at National Arson Investigation Training Seminar. *National Fire and Arson Report* 9, no. 3 (1991): 3+.

Law, the courts and arson. *Fire Protection-South Africa* 15, no. 2 (1988): 5-9.

Legal notes. *National Fire and Arson Report* 3, no. 1 (1985): 13.

Liability in cases of arson. *Fire Journal* 80, no. 4 (1986): 55.

Liability of municipal fire department: Dahlheimer v. City of Dayton. *Arson Reporter* 10, no. 7 (1989): 112-115.

Library fire specialist's study pinpoints patterns in arson. *Library Journal* 107 (1982): 496.

Malice and intent: Commonwealth v. Blake. *Arson Reporter* 11, no. 11 (1990): 212.

Malicious prosecution: Cedars-Sinai Medical Center v. Superior Court and Henderson. *Arson Reporter* 10, no. 1 (1989): 10-12.

Malicious prosecution: Clemmons v. Yaezell, et al. *Arson Reporter* 10, no. 2 (1989): 34-37.

Man arrested for L.A. library fire. *Fire Command* 54, no. 5 (1987): 13.

Man convicted in fire that killed wife. *Fire and Arson Investigator* 38, no. 2 (1987): 17.

Man gets life in burning death of girlfriend. *Fire and Arson Investigator* 37, no. 4 (1987): 20.

Marital privilege: State v. Barth. *Arson Reporter* 9, no. 6 (1988): 63-64.

Maryland: Arson on the rise. *Fire Chief* 29, no. 9 (1985): 18.

Merged offenses: Commonwealth v. Dykes. *Arson Reporter* 9, no. 5.(1988): 43-45.

Michigan training fire ends in tragedy. *National Fire and Arson Report* 5, no. 6 (1987): 1.

Minnesota woman gets 15 years for setting restaurant fire. *Fire Control Digest* 12, no. 7 (1986): 7.

Misrepresentation in insurance application: State Farm Fire and Casualty Company v. Oliver. *Arson Reporter* 9, no. 9 (1988): 123-126.

Misrepresentation/fraud/circumstantial evidence: Emasco Insurance Company v. Waymire. *Arson Reporter* 11, no. 4 (1990): 107-113.

Mississippi member first one hurt at fire after arson bill passed. *International Fire Fighter* 69, no. 11-12 (1986): 13.

Mississippi story shows determined state officials can make inroads against arson. *Fire and Arson Investigator* 42, no. 2 (199 1): 54-55.

Moakley proposes National Arson and Fire Prevention Foundation. *National Fire and Arson Report* 3, no. 2 (1985): 12+.

Moakley to introduce bill to create federally-chartered foundation. *Fire Control Digest* 11, no. 5 (1985): 6-7.

Most destructive fire in San Diego's history caused by arsonist. *Fire Control Digest* 11, no. 7 (1985): 1-2.

Motion for a new trial/newly discovered evidence: Louisiana v. Stanford. *Arson Reporter* 11, no. 12 (1990): 219-220.

Motion for acquittal: Jury instruction: State v. Constant. *Arson Reporter* 9, no. 12 (1988): 175-177.

Motion for acquittal: Sufficiency of evidence: State v. Rogers. *Arson Reporter* 9, no. 12 (1988): 173-174.

Motive/sufficiency of the evidence: Knight v. State. *Arson Reporter* 11, no. 8 (1990): 186-188.

Move over Smokey! Arson Buster has arrived. *Hazard Monthly* 7, no. 5 (1985): 19.

Murder conviction reinstated in Seattle fire fighter's death. *International Fire Fighter* 73, no. 2and3 (1990): 7.

National Arson Forum participants agree cooperation and coordination keys to success. *Hazard Monthly* 7, no. 2 (1986): 6.

National Arson Forum reports progress on coordinated arson attack. *National Fire and Arson Report* 5, no. 5 (1987): 1+.

National forum targets arson. *Washington Scene* 9, no. 29 (1986): 3-4.

National forum targets arson. *International Fire Chief* 52, no. 10 (1986): 11.

National network formed to promote more widespread use of smoke detectors. *National Fire and Arson Report* 9, no. 3 (1991): 13.

Nationwide arson up three percent. *Fire Command* 53, no. 1 (1986): 9.

NBS identifies changes in cigarettes to be more fire-safe. *Fire and Arson Investigator* 42, no. 1 (1991): 19.

Negligence/knowledge: General Accident Fire and Life Assurance Corporation v. Stricks. *Arson Reporter* 11, no. 5 (1990): 135-137.

New arson initiatives promised by N.Y.S. in executive speech. *Fire Control Digest* 12, no. 5 (1986): 7.

New caution in Oregon. *Fire and Arson Investigator* 37, no. 1 (1986): 13.

New FBI/UCR form raises questions. *National Fire and Arson Report* 5, no. 4 (1987): 1.

New from the Center for Fire Research: Computer bulletin board. *Fire and Arson Investigator* 38, no. 4 (1988): 14-15.

New Jersey: Calls for juvenile arson task force. *Fire Chief* 29, no. 10 (1985): 22.

New New York State anti-arson law requires doctors to report bum injuries. *Fire Control Digest* 11, no. 12 (1985): 7-8.

New publications available from FEMA. *Fire Journal* 79, no. 6 (1985): 85.

New technology and tomorrow's forensic scientists. *National Fire and Arson Report* 9, no. 3 (1991): 6+.

New trial set in disco blaze. *Communications Link* 7, no. 1 (1986): 1.

New trial, abuse of discretion. *Fire and Arson Investigator* 37, no. 2 (1986); 16.

New York arson report shows decline. *Washington Scene* 8, no. 1(1985): 4.

New York arson shows decline. *International Fire Chief* 51, no. 2 (1985): 10.

New York enforces vacant building code. *Fire Chief* 29, no. 9 (1985): 21.

New York looks at laws, efforts following disastrous Bronx fire. *Emergency Preparedness News* 14, no. 7 (1990): 53-54.

New York restores anti-arson funds. *International Fire Chief* 51, no. 4 (1985): 12.

New York to develop new arson initiatives. *Rekindle* 15, no. 6 (1986): 16.

New York: Bronx social club arson claims 87 lives. *Firehouse* 15, no. 6 (1990): 46+.

New York: Funds antiarson program. *Fire Chief* 30, no. 5 (1986): 34.

News from FEMA. *Fire News* (1985)

News media, authorities need better understanding. *Fire and Arson Investigator* 37, no. 3 (1987): 18.

NFPA addresses necessity of better enforcement of firesafety standards. *National Fire and Arson Report* 9, no. 5 (1991): 3-4+.

NFPA releases 1986 arson statistics. *Fire Control Digest* 13, no. 11 (1987): 3-4.

NFPA releases 1986 arson statistics. *Fire Control Digest* 13, no. 11 (1987): 3-4.

NFPA releases preliminary report on NY social club fire. *National Fire and Arson Report* 8, no. 3 (1990): 3+.

NFPA reports \$1.59 billion in US property went up in smoke in arson and suspected arson building fire. *Hazard Monthly* 9, no. 1 (1989): 12.

NFPA reports 1986 fire statistics. *National Fire and Arson Report* 5, no. 5 (1987): 8.

NFPA reports 1986 fire statistics. *National Fire and Arson Report* 5, no. 5 (1987): 8.

1989 NFPA arson report. *Fire Engineering* 144, no. 1 (1991): 44.

96 die in Puerto Rico Hotel fire: Arson blamed in wake of labor strife. *Building Official and Code Administrator* 21, no. 1(1987): 4.

No quick settlement seen of civil lawsuits from social club fire. *New York Law Journal* 204, no. 82 (1990): .

NY publishes youth arson report. *International Fire Chief* 52, no. 2 (1986): 11.

Offer of judgement/revocation: Colonial Penn Insurance Company v. Coil. *Arson Reporter* 11, no. 1 (1990): 199-203.

Offices: Durban, South Africa. *Fire* 17, no. 4 (1990): 14.

1665 died in smoking fires in 1988. *National Fire and Arson Report* 9, no. 3 (1991): 11-12.

129 fire fighters die in 1988: Volunteers lead increase in line-of-duty deaths. *Fire and Arson Investigator* 40, no. 1 (1989): 44.

Oregon scientist's cigarette butt analysis helps solve crimes. *California Fire Arson Investigator* 1, no. 4 (1991): 47.

Payment to mortgagee/setoff: Simpson v. State Farm Fire and Casualty Company. *Arson Reporter* 11, no. 6 (1990): 149-152.

Payment to mortgagee: Selby v. Union Automobile Indemnity Association. *Arson Reporter* 9, no. 1-2 (1988): 10-11.

Phoenix continues its training for special arson investigations. *Fire Control Digest* 12, no. 8 (1986): 7-8.

Photography for the investigator: New films for every situation. *National Fire and Arson Report* 3, no. 1 (1985): 15.

Plea deal averts 3rd arson trial. *Communications Link* 7, no. 14 (1986): 14.

Plea Negotiations: State v. Hovind. *Arson Reporter* 9, no. 12 (1988): 178-181.

Pleading misrepresentation: Brooks v. Town and Country Mutual Insurance Company. *Arson Reporter* 9, no. 1-2 (1988): 1 1-12.

Policy exclusion: Bryan v. Employers National Insurance Corp. et.al. *Arson Reporter* 9, no. 1-2 (1988): 8-9.

Prejudicial joinder: McDonald v. State. *Arson Reporter* 10, no. 2 (1989): 27-28.

Primary vs. secondary shorting. *National Fire and Arson Report* 9, no. 2 (199 1): 8-9.

Prior conviction: McInnis v. State. *Arson Reporter* 9, no. 6 (1988): 61-63.

Prison terms for arsonist. *Fire Command* 52, no. 4 (1985): 17.

Private investigations/evidence integrity: State of Maine v. William Berkley a/k/a William Berkley S. *Arson Reporter* 11, no. 3 (1990): 70-75.

Production of documents: United States Fidelity and Guaranty Company v. Conaway. *Arson Reporter* 9, no. 1-2 (1988): 12-14.

Proposals and contracts. *Fire Chief* 29, no. 8 (1985): 10.

Prosecutorial misconduct: Fundamental error: West v. State. *Arson Reporter* 9, no. 9 (1988): 115-116.

Prosecutorial misconduct: Hope v. State. *Arson Reporter* 8, no. 4-5 (1987): 5-6.

Protected property: State ex rel. Juvenile Department, Josephine County v. Roff. *Arson Reporter* 10, no. 1 (1989): 9-10.

Protecting our schools against arson. *Fire* 80, no. 987 (1987): 26.

Protection against incendiary fires. *Fire and Arson Investigator* 29, no. 1 (1978): 29-38.

Quebec's toxic cloud. *Occupational Health and Safety* 57, no. 11 (1988): 10.

Range fire may have been started by an arsonist. *Fire Control Digest* 14, no. 4 (1988): 5-6.

Recalls of interest. *Fire and Arson Investigator* 37, no. 4 (1987): 18.

Recording Grand Jury testimony: State ex. rel. Woodel v. Wallace. *Arson Reporter* 9, no. 3 (1988): 18-19.

Recovery under policy by innocent homeowner: Reed v. Federal Insurance Company. *Arson Reporter* 8, no. 1-3 (1987): 1 1-12.

RED CAP fire marshals welcomed in Astoria. *Fire Control Digest* 11, no. 5 (1985): 4-5.

Red Caps: A proud accomplishment. *Fire Command* 52, no. 7 (1985): 7.

Reduction of sentence after escape: Mossberg v. State. *Arson Reporter* 8, no. 4-5 (1987): 6-7.

Relevancy of evidence: Commonwealth v. Flis. *Arson Reporter* 9, no. 1-2 (1988): 5-7.

Requisite Mens Rea: United States of America v. M.W. *Arson Reporter* 11, no. 2 (1990): 39-41.

Restitution: Brothers v. State. *Arson Reporter* 9, no. 4 (1988): 36.

Restitution: State of South Dakota v. Tuttle. *Arson Reporter* 11, no. 10 (1990): 205.

Rhode Island: Providence. *Communications Link* 6, no. 41 (1985): .

RICO becomes mixed blessing for insurance. *Fire and Arson Investigator* 37, no. 4 (1987): 18.

RICO: Can a good law still have some bad side effects?. *Fire and Arson Investigator* 36, no. 1 (1985): 42-45.

Right to counsel: Loss or destruction of evidence: State v. Currington. *Arson Reporter* 8, no. 7-12 (1987): 32-35.

Rural arson. *International Fire Chief* 51, no. 1 (1985): 11-17.

Rural arson. *Fire Chief* 29, no. 8 (1985): 24+.

Rural arson a growing problem. *Fire Control Digest* 11, no. 5 (1985): 6.

Rural arson grip tightens. *Dispatch* 8, no. 3 (1985): 2-3.

Rural arson is' on rise. *Minnesota Fire Chief* 22, no. 2 (1985): 62.

Rural fires spark call to curb arsonists. *Fire Control Digest* 13, no. 12 (1987): 4.

Rural fires underscore arson problem. *Volunteers' Dispatch* 11, no. 1 (1988): 3.

Scope of declaratory judgement: American Family Mutual Insurance Company v. Bowser. *Arson Reporter* 10, no. 7 (1989): 107-111.

Scope of discovery: Miracle Sound, Inc. v. New York Property Insurance Underwriting Association. *Arson Reporter* 11, no. 11 (1990): 214.

Seal 'em or demolish 'em New York City tells vacant building owners. *Fire Control Digest* 11, no. 7 (1985): 3-4.

Search and seizure: Due process: Pervis v. State. *Arson Reporter* 8, no. 4-5 (1987): 4-5.

Search and seizure: State v. Copeland. *Arson Reporter* 8, no. 7-12 (1987): 30-32.

Search and seizure: Subsequent testing of evidence: State v. Moretti. *Arson Reporter* 8, no. 4-5 (1987): 7-9.

Self-incrimination: State v. Silano. *Arson Reporter* 8, no. 7-12 (1987): 27-29.

Senate subcommittee holds hearing on juvenile arson. *Hazard Monthly* 6, no. 1 (1985): 7.

Sentencing error: State v. Brown. *Arson Reporter* 10, no. 3 (1989): 49-51.

Sentencing/sufficiency of the evidence: State of Tennessee v. Brown. *Arson Reporter* 11, no. 4 (1990): 98-100.

Separate insureds: Mortgage setoff: Reed, et.al. v. Federal Insurance Company. *Arson Reporter* 9, no. 5 (1988): 49-51.

Separate insureds: Republic Insurance Company F. Jernigan. *Arson Reporter* 9, no. 5 (1988): 52-53.

Setting a sooty trap for arsonists, *Science News* 130 (1986): 170.

Several Southern California wild fires suspected set by arsonists. *Fire Control Digest* 11, no. 11(1985): 7-8.

Severity of crime., *National Fire and Arson Report* 3, no. 1(1985): 3+.

Similar transactions: ,Carver v. State of Georgia. *Arson Reporter* 10, no. 12 (1989): 7-9.

6th amendment: United States v. White. *Arson Reporter* 10, no. 3 (1989): 43-45.

Social club fire Bronx, New York. *Fire Journal - Australia* (1990): 15-16.

Social security fraud. *National Fire and Arson Report* 7, no. 5 (1989): 9.

Specific intentfor arson. *Arson Reporter* 10, no. 3 (1989): 40-42.

Speedy trial: State v. Wombolt. *Arson Reporter* 9, no. 5 (1988): 45-46.

Standard of proof: Dairy Queen of Fairbanks, Inc., v, Travelers Indemnity Company of America. *Arson Reporter* 9, no. 1-2 (1988): 9-10.

Standard test method for:Flammable or combustible liquid residues in extracts from samples of fire. *Fire and Arson Investigator* 41, no. 4 (1991): 41-54.

Standard union mortgage clause: Equitable lien: Hatley v. Payne and Aetna Casualty and Surety Compan. *Arson Reporter* 9, no. 8 (1988): 99-101.

Standards Bureau looks at soot for arson clues. *Hazard Monthly* 8, no. 7 (1987): 2.

State v. Campbell. *Arson Reporter* 8, no. 1-3 (1987): 4.

Structural arson fire incidents on decline in New York State. *Fire Control Digest* 11, no. 2 (1985): 7.

Study of the pattern of costs of arson in New South Wales. *Fire and Arson Investigator* 38, no. 2 (1987): 18.

Study released on arson investigation, prosecution. *International Fire Chief* 51, no. 3 (1985): 12.

Study show large increase in deliberate vehicle fires. *Fire* 84, no. 1032 (1991): 14.

Subrogation against partner: Hartford Fire Insurance Company v. Advocate. *Arson Reporter* 11, no. 10 (1990): 207.

Sufficiency and evidence: Hayseeds, Inc. vs. State Farm Fire and Casualty Company. *Arson Reporter* 8, no. 1-3 (1987): 14-15.

Sufficiency of evidence - Garrett v. Allstate Insurance Company. *Arson Reporter* 10, no. 4 (1989): 67-69.

Sufficiency of evidence - opinion testimony: Thomas v. Allstate Insurance Company. *Arson Reporter* 10, no. 4 (1989): 62-66.

Sufficiency of evidence: Prior conduct evidence: prosecutorial misconduct: Mail fraud: United States. *Arson Reporter* 8, no. 6 (1987): 15-19.

Sufficiency of evidence, right to probation, excessive sentence: State v. Kane. *Arson Reporter* 8, no. 1-3 (1987): 8.

Sufficiency of evidence/had faith: Industrial Indemnity Company of the Northeast, Inc. v. Kallevig. *Arson Reporter* 10, no. 7 (1989): 101-106.

Sufficiency of evidence: Baugh v. The State of Texas. *Arson Reporter* 10, no. 8 (1989): 117-121.

Sufficiency of evidence: Bowles v. Travelers Indemnity Company. *Arson Reporter* 10, no. 5 (1989): 71-73.

Sufficiency of evidence: Grand juror bias: State v. Mathews. *Arson Reporter* 9, no. 7 (1988): 75-82.

Sufficiency of evidence: Home v. State. *Arson Reporter* 9, no. 5 (1988): 46-47.

Sufficiency of evidence: Lee v. Independent Fire Insurance Company of Jacksonville, FL. *Arson Reporter* 11, no. 5 (1990): 133-135.

Sufficiency of evidence: Pacheco v. Safeco Insurance Company of America. *Arson Reporter* 10, no. 8 (1989): 128-132.

Sufficiency of evidence: People v. Mills. *Arson Reporter* 9, no. 4 (1988): 32.

Sufficiency of evidence: Ross v. State of Arkansas. *Arson Reporter* 11, no. 1 (1990): 206-211.

Sufficiency of evidence: State of Maine v. Lanciani. *Arson Reporter* 11, no. 3 (1990): 68-70.

Sufficiency of evidence: State v. Conklin. *Arson Reporter* 8, no. 6 (1987): 19-20.

Sufficiency of evidence: State v. Formo. *Arson Reporter* 9, no. 1-2 (1988): 2-4.

Sufficiency of evidence: State v. Jussaume. *Arson Reporter* 8, no. 1-3 (1987): 9.

Sufficiency of evidence: State v. Snell. *Arson Reporter* 9, no. 11 (1988): 155-156.

Sufficiency of evidence: United States v. Figueroa. *Arson Reporter* 8, no. 7-12 (1987): 35-37.

Sufficiency of evidence: Negligence: Elmore Moving and Storage Inc. v. United States. *Arson Reporter* 9, no. 5 (1988): 53-55.

Sufficiency of the evidence: Bustamante v. State of Indiana. *Arson Reporter* 11, no. 9 (1990): 96-97.

Sufficiency of the evidence/age requirement: Lambert v. Commonwealth of Virginia. *Arson Reporter* 10, no. 12 (1989): 12-14.

Sufficiency of the evidence: Boyinton v. State of Texas. *Arson Reporter* 11, no. 4 (1990): 95-97.

Sufficiency of the evidence: Cable v. State of Georgia. *Arson Reporter* 10, no. 12 (1989): 5-7.

Sufficiency of the evidence: Commonwealth v. Blonde. *Arson Reporter* 11, no. 8 (1990): 189.

Sufficiency of the evidence: Moberly v. State of Florida. *Arson Reporter* 11, no. 6 (1990): 145- 147.

Sufficiency of the evidence: People of the State of New York v. Ames. *Arson Reporter* 11, no. 4 (1990): 97-98.

Sufficiency of the evidence: State of Kansas v. Bachar. *Arson Reporter* 10, no. 12 (1989): 27-28.

Sufficiency of the evidence: State of Missouri v. Clarence D. Smith. *Arson Reporter* 10, no. 11 (1989): 170-175.

Sufficiency of the evidence: State of North Carolina v. Ward. *Arson Reporter* 10, no. 12 (1989): 2-5.

Sufficiency of the evidence: State of North Dakota v. Carson. *Arson Reporter* 11, no. 4 (1990): 105-107.

Sufficiency of the evidence: State of Ohio v. Virginia Shaver. *Arson Reporter* 11, no. 2 (1990): 42-45.

Sufficiency of the evidence: State of Tennessee v. Hill. *Arson Reporter* 10, no. 12 (1989): 3 1-33.

Sufficiency of the evidence: State of Tennessee v. Narramore. *Arson Reporter* 10, no. 12 (1989): 29-50.

Sufficiency of the evidence: State of Tennessee v. Ward. *Arson Reporter* 11, no. 8 (1990): 187-188.

Sufficiency of the evidence: State of Utah v. Debbie Bergwerff. *Arson Reporter* 10, no. 11 (1989): 168-169.

Sufficiency of the evidence: State of West Virginia v. Hanson. *Arson Reporter* 10, no. 12 (1989): 23-24.

Sufficiency of the evidence: The People of the State of New York v. Rodney Skinner. *Arson Reporter* 11, no. 7 (1990): 166-167.

Sufficiency of the evidence: The People of the State of New York v. Victoriano Garcia. *Arson Reporter* 11, no. 7 (1990): 167-168.

Sufficiency of the evidence: The Re: Jesse L., Jr., a Person Coming Under the Juvenile Court Law, *Arson Reporter* 11, no. 7 (1990): 168-172.

Summary judgement: Innocent spouse: Attallah v. Midwestern Indemnity Company. *Arson Reporter* 9, no. 8 (1988): 97-99.

Summary judgement: Lott v. Aetna Life and Casualty Company. *Arson Reporter* 9, no. 6 (1988): 64-65.

Summary judgement: St. Paul Fire and Marine Insurance Company v. Seafare Corporation. *Arson Reporter* 8, no. 7-12 (1987): 39-41.

Summary judgment: Baroud v. Merrimack Mutual Fire Insurance Company. *Arson Reporter* 9, no. 1-2 (1988): 14-15.

Suppression of accused's statements: Delay in appeal: People v. Gaines. *Arson Reporter* 9, no. 11 (1988): 154-155.

Suppression of evidence: State of Tennessee v. Vann. *Arson Reporter* 11, no. 5 (1990): 122-126.

Supreme Court opens trash for investigators. *National Fire and Arson Report* 6, no. 3 (1988): 8.

Suspect indicted and arraigned in December 15 New York retirement home fire. *IAFC On Scene* 4, no. 2 (1990): 1.

Suspect is arrested in fatal arson fire. *International Fire Fighter* 70, no. 3-4 (1987): 7.

Suspected arson fire kills three in New York. *IAFC On Scene* 4, no. 1 (1990): 1.

Suspicious fires on the rise. *Minnesota Fire Chief* 23, no. 4 (1987): 59.

Tale of two programs. *Fire and Arson Investigator* 38, no. 3 (1988): 54.

Tape recording of telephone conversations upheld. *Fire and Arson Investigator* 37, no. 4 (1987): 20.

Teamsters Union Official arrested in Dupont Plaza fire that killed 97 in 1986. *Fire Control Digest* 14, no. 3 (1988): 2.

Technique for chemical detection of arson being developed by NBS. *Emergency Preparedness News* 10, no. 18 (1986): 143.

Tender of Proceeds/Bad Faith: Warner v. Liberty Mutual Fire Insurance Company. *Arson Reporter* 10, no. 5 (1989): 74-78.

Tennessee: Release arson statistics. *Fire Chief* 29, no. 4 (1985): 30+.

Testimony is most impressive: ENR scientists help solve murder. *National Fire and Arson Report* 5, no. 6 (1987): 6.

Testimony of accomplice: Saunders v. State of Texas. *Arson Reporter* 11, no. 9 (1990): 195.

The basic problem facing the arsonist. *National Fire and Arson Report* 8, no. 4 (1990): 3.

The investigator's digest. *National Fire and Arson Report* 7, no. 3 (n.d.): 8-9.

There'll always be a con man, or will there? *Fire and Arson Investigator* 36, no. 12 (1985): 22-24+.

Things you would never know if you didn't investigate arson fires. *Fire Command* 53, no. 7 (1986): 9.

Third round of federal grants promotes local anti-arson work. *Fire Control Digest* 12, no. 12 (1986): 1-3.

30 state and local attorneys to attend federal arson seminar. *Fire Control Digest* 11, no. 10 (1985): 5.

Three plead guilty to hotel arson fire. *Fire Command* 54, no. 7 (1987): 8.

Time for appeal: United States v. Patel. *Arson Reporter* 9, no. 1-2 (1988): 4-5.

Training is the key-FPA report for 1987/88. *Fire Prevention* no. 214 (1988): 5.

Treating juvenile firesetters. *Minnesota Fire Chief* 28, no. 2 (1991): 12-13+.

Two charged with burning house to avoid cleaning up. *Fire Control Digest* 14, no. 9 (1988): 3.

Two found guilty in arson trial. *Fire and Arson Investigator* 38, no. 2 (1987): 14.

Two indicted for Indy fire. *Fire and Arson Investigator* 37, no. 4 (1987): 18.

2 lives lost on \$5 bet. *Communications Link* 8, no. 4 (1987): 18.

Two major issues for CFPA Europe: Action against arson - fire and the environment. *Fire Prevention* no. 221 (1989): 19.

Typical firesetter "unchecked" hyperkinetic teen. *Clinical Psychiatry News* 7, no. 11 (nd.).

U.S. Fire Administration gives anti-arson grants. *Rekindle* 15, no. 1 (1986): 21-22.

U.S. Fire Administration launches investigations into fatal fires at homes for the elderly. *Fire and Arson Investigator* 40, no. 4 (1990): 43.

U.S. Fire Administration solicits proposals for anti-arson grants. *Rekindle* 14, no. 5 (1985): 21.

U.S. school fires: Recent trends and patterns. *Fire Command* 53, no. 9 (1986): 42-43.

UCR arson reporting form. *National Fire and Arson Report* 5, no. 4 (1987): 3.

Unconstitutional statute: People v. Zeisler. *Arson Reporter* 9, no. 11 (1988): 158-160.

Unstable universe: Spontaneous human combustion. *Fire and Arson Investigator* 35, no. 3 (1985): 26+.

Update: Kansas City explosion. *IAFC On Scene* 3, no. 19 (1989): 1.

Upsurge in countryside fires. *Fire Prevention* no. 225 (1989): 38-40.

Urban wildlands fire. *Fire and Arson Investigator* 38, no. 3 (1988): 43-45.

US Fire Administration solicits proposals for anti-arson grants. *Fire Journal* 79, no. 4 (1985): 95.

USFA and ABA will publish arson newsletter. *Washington Scene* 8, no. 15 (1985): 4.

USFA and ABA will publish arson newsletter. *International Fire Chief* 51, no. 6 (1985): 11.

USFA and ABA publish arson newsletter. *Fire Engineering* 138, no. 7 (1985): 21.

USFA arson fire report. *Fire Chief* 33, no. 5 (1989): 8+.

USFA awards anti-arson grants. *International Fire Chief* 53, no. 1 (1987): 6-7.

USFA awards anti-arson grants. *International Fire Chief* 52, no. 2 (1986): 6.

USFA awards anti-arson grants. *Washington Scene* 9, no. 46 (1986): 1-2.

USFA awards anti-arson grants. *Washington Scene* 8, no. 50 (1985): 3-4.

USFA developing anti-arson program. *IAFC On Scene* 2, no. 12 (1988): 3.

USFA finds federal partner for fight against juvenile arson. *FEMA Newsletter* (1988): 11-12.

USFA introduces education campaign on the characteristics of fire. *Fire and Arson Investigator* 40, no. 4 (1990): 44.

USFA investigates fatal fire. *Fire Chief* 34, no. 3 (1990): 6+.

USFA joins lawyers in arson publication. *Rekindle* 14, no. 5 (1985): 21.

USFA joins lawyers to publish Arson Reporter. *Fire Control Digest* 11, no. 4 (1985): 9.

USFA launches attack on child fire deaths. *Fire and Arson Investigator* 40, no. 1 (1989): 51.

USFA solicits proposals for anti-arson grants. *Washington Scene* 8, no. 15 (1985): 2.

USFA studies arson units - seeks test site, *Link* 10, no. 11 (1989): 1.

USFA studies arson units - seeks test site. *Fire Control Digest* 15, no. 5 (1989): 9.

USFA studies arson units: seeks test site. *Fire and Arson Investigator* 40, no. 1 (1989): 51.

USFA's arson program. *Fire News* no. 751 (1986): 3.

Using photography to preserve evidence. *National Fire and Arson Report* 5, no. 4 (1987): 4-5.

Using photography to preserve evidence (conclusion). *National Fire and Arson Report* 6, no. 4 (1988): 4-5.

Using photography to preserve evidence: composite exhibits. *National Fire and Arson Report* 6, no. 2 (1988): 5.

Using photography to preserve evidence: Document examination. *National Fire and Arson Report* 5, no. 5 (1987): 4.

Using photography to preserve evidence: Document examination. *National Fire and Arson Report* 5, no. 6 (1987): 8+.

Using photography to preserve evidence: preparing photographs for court exhibit. *National Fire and Arson Report* 6, no. 1 (1988): 8.

Vacuum cleaners: Possible fire hazard. *National Fire and Arson Report* 5, no. 4 (1987): 9.

Variance in pleading and proof: *Manos v. Ohio Fair Plan Underwriting Association*. *Arson Reporter* 9, no. 9 (1988): 128-129.

Waiver of counsel: *Hart v. State*. *Arson Reporter* 9, no. 9 (1988): 116.

War on arson-caused fires. *Fire Command* 53, no. 3 (1986): 9.

Warrantless arrest - right to counsel: *People v. Keller*. *Arson Reporter* 10, no. 4 (1989): 59-61.

Warrantless search: *Michigan v. Tyler*, *Michigan v. Clifford*. *Fire and Arson Investigator* 36, no. 12 (1985): 43-44.

West Berlin: A city of arsonists. *American Fire Journal* 39, no. 2 (1987): 11.

What is EENET? *Fire and Arson Investigator* 38, no. 4 (1988): 15-16.

Wheby v. Maryland Casualty Company. *Arson Reporter* 9, no. 10 (1988): 144.

Who will be our investigator-of-the-year? *Fire and Arson Investigator* 37, no. 1 (1986): 8.

Wildfire: The west smolders as arson, high temperatures, drought take toll. *IAFC On Scene* 4, no. 14 (1990): 1+.

Witness impeachment: *Cooper v. State Farm Fire and Casualty Company*. *Arson Reporter* 11, no. 6 (1990): 160-164.

Woman firefighter is suspect. *Communications Link* 7, no. 43 (1986).

Woman gets probation for lying about fire losses. *Fire and Arson Investigator* 37, no. 2 (1986): 13.

Wood stove fires. *Fire and Arson Investigator* 38, no. 4 (1988): 18.

Wood-ignition temperature and related matters. *Fire and Arson Investigator* 38, no. 4 (1988): 20.

Worker charged with setting Connecticut fire that killed 15 horses. *Communications Link* 7; no. 38 (1986): 38.

You are going to be a witness. *National Fire and Arson Report* 3, no. 2 (1985): 4.

You're going to be a witness. *Fire and Arson Investigator* 36, no. 1 (1985): 37-38.

Abraham, J. Brothers charged in arson fires. *Fire Command* 56, no. 5 (1989): 25-29.

Adams, E. Fire Season, 1974. *Minnesota Fire Chief* 11, no. 6 (1975): 11-16.

Adams, R. Arson investigation - a preliminary report. *International Fire Chief* 42, no. 8 (1976): 11-16.

Akiyama, Y., P.C. Pfeiffer. Arson. A statistical profile. *FBI Law Enforcement Bulletin* 53, no. 10 (1984): 8-14.

Akiyama, Y., P.C. Pfeiffer. Arson: A statistical profile. *Fire and Arson Investigator* 35, no. 3 (1985): 14-19.

Albanbauer, J., A. Kraatz, G. Megges. Forensic chemical examinations after explosions of volatile substances. *Archiv fuer Kriminologie* 171, no. 3 and 4 (1983): 89-96.

Aldrich, R.D. Arson: A case study. *Fire Command* 46, no. 10 (1979): 36-38.

Allard, D.L., J.B. Zicherman. Compartment tests of polyurethane foam seating assemblies, *Fire and Arson Investigator* 41, no. 4 (1991): 56-60.

Allard, D.L., J.B. Zicherman. Compartment tests of polyurethane foam seating assemblies. *Fire and Arson Investigator* 40, no. 2 (1989): 40-43.

- Allen, D. Sweet dreams or nightmares?. *California Fire Arson Investigator* 2, no. 2 (1991): 26-27.
- Allen, K., K. Bett, D.L. Danchuk, A. Devins, R.J. Hrynychuk. Study of vehicle fires of known ignition source: Part 2. *Fire and Arson Investigator* 35, no. 1 (1984): 32-44.
- Alletto, WC. Arson patterns analysis unit. *Fire and Arson Investigator* 29, no. 4 (1979): 3-9.
- Alletto, WC., J.E. Stuerwald. Surveillance techniques for fire investigators. *Fire and Arson Investigator* 39, no. 1 (1988): 56-59.
- Alliance of American Insurers, How to organize an arson task force in your community. *Journal of American Insurance* (1978): 12-14.
- American Insurance Association. Spontaneous ignition. *Fire and Arson Investigator* 36, no. 12 (1985): 6-8.
- American Mutual Insurance Alliance, Target. Arson. *Journal of American Insurance* 53, no. 4 (1977-1978): 12-15.
- Anderson, D. Moscow records world's worst fire. *American Fire Journal* 40, no. 11 (1988): 34.
- Anderson, N. Forest fire devastation must be reduced. *Fire International* 116, no. 25-26 (1989): 25-26.
- Anderson, P. LEAA provides fund for arson courses. *Fire Engineering* 132, no. 9 (1979): 46-47.
- Anderson, T. Going undercover. *Firehouse* 12, no. 2 (1987): 33+.
- Andrasko, J. Identification of burnt matches by scanning electron microscopy. *Journal of Forensic Sciences* 23, no. 4 (1978): 637-642.
- Anthony, D.F. Fire strikes the Los Angeles Central library. *Fire Command* 53, no. 10 (1986): 26-29+.
- Anthony, R.J. Quick arson analysis with gas chromatography. *Firehouse* 7, no. 9 (1982): 126+.
- Appelbaum, KL. Criminal defendants who desire punishment. *Bulletin of the American Academy of Psychiatry and the Law* 18, no. 4 (1990): 385-391.
- Apps, R.L. 1871 burning of Michigan: Forest fires ravage people and property. *Firehouse* 13, no. 8 (1988): 64-65+.
- Arbogast, K. Cincinnati church hit by arson fire just before Sunday services began. *Fire Engineering* 134, no. 12 (1981): 23-25.
- Arlow, J.A. Pyromania and the primal scene: A psychoanalytic comment on the work of Yukio Mishima. *Psychoanalytic Quarterly* 47, no. 1 (1978): 25-51.
- Armstrong, A.T., R.S. Wittkower. Identification of accelerants in fire residues by capillary column gas chromatography. *Journal of Forensic Sciences* 23, no. 4 (1978): 662-671.
- Aronstein, J. Electrical fires: The other side of the coin. *National Fire and Arson Report* 3, no. 1 (1985): 1-2+.
- Atkins, T.H. Legal notes. *National Fire and Arson Report* 5, no. 6 (1987): 5+.
- Aurnhammer, T.W. Investigators on the first alarm. *Fire Command* 56, no. 8 (1989): 30-32+.
- Awad, G.A., S.I. Harrison. Single case study: A female fire setter. A case report. *Journal of Nervous and Mental Disease* 163, no. 6 (1976): 432-437.
- Axberger, G. Arson and friction: A cross-disciplinary study. *Psychiatry* 36, (1973): 244-265.
- Bailey, J.W. Archaeology - help for arson investigation from an unexpected source. *International Fire Chief* 29, no. 3 (1983): 24-27.
- Bailey, J.W. The archaeological water separation machine in fire investigation. *Journal of Forensic Sciences* 35, no. 5 (1990): 1201-1206.
- Baizerman, M., B. Emshoff. Juvenile firesetting: Building a community-based prevention program. *Children Today* (1984): 8-12.
- Balliet, C.A., M.A. Balliet, J.L. Sanderson. Sampling techniques for accelerant residue analysis. *Fire and Arson Investigator* 40, no. 3 (1990): 35-40.
- Baran, M. Spontaneous human combustion. *Fire and Arson Investigator* 35, no. 4 (1985): 4-6.
- Barlay, S. Firebugs... and their fearless victims. *Top Security, Fire Issue* 2, no. 6 (1976): 195-197.
- Barnes, WC. Trailing a firebug. *American Forests* 91, no. 8 (1985): 52-55.
- Barracato, J.S. Arson prevention. *Firehouse* 4, no. 10 (1979): 54-55.
- Barracato, J.S. Investigating vehicle fires. *Firehouse* 10, no. 12 (1985).
- Barracato, J.S. Vehicle arson: An investigator's view. *Minnesota Fire Chief* 25, no. 4 (1989): 18+.
- Barrett, K., R. Greene. Playing with fire: The majority of young arsonists today are children. *Ladies Home Journal* (1988): 52+.
- Bates, R.B. Essential aspects of a successful fire investigation. *Fire and Arson Investigator* no. 37 (nd.): 4.
- Bates, R.B. Making sense of nonsense: The negative corpus doctrine in arson. *Fire and Arson Investigator* 38, no. 1 (1987): 26-28.
- Bates, R.B. The IAAI meets the dragon. *Fire and Arson Investigator* 39, no. 4 (1989): 57-60.
- Battelle Memorial Institute; Insurance Committee for Arson Control. Arson: Ten years later. *Fire and Arson Investigator* 38, no. 1 (1987): 53-57.

- Baxi, H.S. Use of discriminant analysis to predict arson-prone structures. *Fire Technology* 20, no. 4 (1984): 17-41.
- Beale, R. Arson: The problem of proof. *Fire Prevention* no. 244 (1991): 30-31.
- Bedding Magazine. Matter of arson opens talks on possible high risk standard. *Bedding Magazine* 104, no. 9 (1976).
- Beering, P.S. Secrets for a successful arson prosecution. *Fire and Arson Investigator* 41, no. 2 (1990): 52-54.
- Beering, P.S. Secrets to a successful arson prosecution. *Firehouse* 14, no. 9 (1989): 69-70+.
- Beering, P.S. You are invited: To be a witness. *Fire and Arson Investigator* 41, no. 3 (1991): 33-35.
- Beland, B. Another electrical fire? *Fire and Arson Investigator* 36, no. 1 (1985): 19-20.
- Beland, B. Behavior of electrical contacts under fire conditions. *Fire and Arson Investigator* 38, no. 1 (1987): 38-41.
- Beland, B. Blackening of fuses following a short-circuit. *Fire and Arson Investigator* 40, no. 2 (1989): 36-37.
- Beland, B. Comments concerning electricity as the cause in the fire statistics. *Fire and Arson Investigator* 37, no. 4 (1987): 22-25+.
- Beland, B. Copper-aluminum interaction in fire environments. *Fire and Arson Investigator* 37, no. 3 (1987): 52-55.
- Beland, B. Electrical conductors: Part 2 of fire damages to electrical semi-conductors, *National Fire and Arson Report* 4, no. 1 (1986): 11-12+.
- Beland, B. Fire damages to electrical semiconductors. *National Fire and Arson Report* 3, no. 6 (1986): 1+.
- Beland, B. Floating neutral as a cause of fires. *Fire and Arson Investigator* 36, no. 1 (1985): 9-12.
- Beland, B. On meticulous investigating. *National Fire and Arson Report* 8, no. 4 (1990): 8-10.
- Beland, B. Some fires of electrical origin. *Fire and Arson Investigator* 37, no. 2 (1986): 37.
- Beland, B., D. Gamache. Behavior of mineral wool at high temperature. *Fire and Arson Investigator* 35, no. 2 (1984): 50-52.
- Beland, B., D. Gamache. Heat tapes as causes of fires. *Fire and Arson Investigator* 37, no. 1 (1986): 38-40.
- Beland, B., D. Gamache. Irons as causes of fires. *Fire and Arson Investigator* 38, no. 2 (1987): 39-41.
- Beland, B., D. Saucier. Deformation of conduit fittings by fire and electrical activity. *Fire and Arson Investigator* 38, no. 1 (1987): 60-61.
- Beldue, J. Biorhythms help determine firesetter's cycles. *Firehouse* 13, no. 8 (1988): 16+.
- Bell, J. UCR and the fire service. *Fire Command* 45, no. 2 (1979): 16-17.
- Bell, J.R. 24 die in Los Angeles residential apartment building fire. *Fire Journal* 77, no. 3 (1983): 43-46, +.
- Bell, J.R. Anatomy of an American hotel fire: Why so many people failed to reach safety. *Fire* 75, no. 928 (1982): 239-242.
- Bell, J.R. Five die in Pittsburgh boarding home fire. *Fire Journal* 77, no. 5 (1983): 68-71, +.
- Bennett, J.A. Arsonist paints disaster with brush. *Fire Engineering* 138, no. 10 (1985): 24.
- Bennett, W.D., A.V. Merlo, K.K. Leiker. Geographical patterns of incendiary and accidental fires. *Journal of Quantitative Criminology* 3, no. 1 (1987): 47-64.
- Benny, D.J. Surveillance techniques. *National Fire and Arson Report* 5, no. 5 (1987): 7-8.
- Benson, D.H. Fire and ice. *American Fire Journal* 37, no. 3 (1985): 36-37+.
- Benson, D.H. Volunteers pull the alarm on arson. *Fire Chief* 31, no. 10 (1987): 60-61.
- Bercovici, M.W. Michigan vs. Clifford: The Supreme Court clarified warrant requirement for fire investigation. *Fire and Arson Investigator* 35, no. 3 (1985): 40-42.
- Berluti, A.F. Arson investigation: Connecticut's canines. *Police Chief* 57, no. 12 (1990): 38+.
- Berluti, A.F. Sniffing through the ashes: Connecticut initiates canine accelerant detection. *Fire and Arson Investigator* 39, no. 4 (1989): 31-35.
- Bernard, D. Sniffing out the work of arsonists. *Fire Fighting in Canada* 35, no. 3 (1991).
- Bernstein, T. Electrical systems and their relationship to electrical accidents and fires. *Fire and Arson Investigator* 26, no. 2 (1975): 1-4.
- Berrin, E.R. Automatic sprinklers and their importance to the fire investigator. *Fire and Arson Investigator* 41, no. 2 (1990): 56-60.
- Berry, D. Cool weather fire hazards. *Mississippi Fire Arson Investigator* 1, no. 2 (1991): 10-11.
- Bertsch, W. Arson debris analysis: Technical limits and a word of caution. *Fire and Arson Investigator* 37, no. 2 (1986): 35.
- Bertsch, W., et al. Using the tools of chromatography, mass spectrometry, and automated data processing in the detection. *Journal of High Resolution Chromatography* 13, no. 9 (1990): 597-605.
- Best, R. Demolition exposure fire causes over \$90 million loss to Minneapolis Bank. *Fire Journal* 77, no. 4 (1983): 60-64, +.
- Best, R. Social club fire, Bronx, New York. *Fire Journal* 71, no. 3 (1977): 13-16+.

- Best, R. Suspected arson kills twelve in 120-year-old Pennsylvania Inn.. *Fire Journal* 73, no. 2 (1979): 24-27 +.
- Beyer, J.A. Why insurance companies settle arson claims. *National Fire and Arson Report* 7, no. 3 (nd.): 1+.
- Billingham, J.R. Texas: Arsonist sparks \$30 million fire in sprinklered Garland warehouse. *Firehouse* 13, no. 6 (1988): 38-41.
- Birr, T. Oregon: Cottage Grove arson fire kills one and threatens business district. *Firehouse* 15, no. 6 (1990): 90-91.
- Bisbing, R.E. Common evidence connected with method of entry in arson cases. *Fire and Arson Investigator* 28, no. 3 (1987): 26-30.
- Bitzer, J.H. War is declared on juvenile firesetters. *Fire Control Digest* 12, no. 6 (1986): 8.
- Bjonback, D., H. Naik. Role of disaster assistance in floodplain management. *Emergency Preparedness Digest* 13, no. 5 (1988): 20-25.
- Blackburn, R.B. Dilligence can lead to detection of arsonist. *Fire* 75, no. 925 (1982).
- Blackledge, R.D. Case report. Methenamine. An Unusual component in an improvised incendiary device. *Journal of Forensic Sciences* 36, no. 1 (1991): 261-263.
- Blackledge, R.D. Recovery and identification of flammable liquids in suspected arsons. *Journal of Chemical Education* 51, no. 8 (1974): 549-550.
- Blakistone, S.D. Tracing the roots of arson law. *Firehouse* 14, no. 8 (1989): 37+.
- Blevins, G., C.C. Brooks. Arsonist bums abode in fit of rage. *American Fire Journal* 38, no. 11 (1986): 30.
- Bloom, J. Use of a wood moisture detector in structural fire investigation. *Fire and Arson Investigator* 37, no. 3 (1987): 45.
- Bloom, J., J. Bloom. Steps to successful civil arson investigation. *Fire and Arson Investigator* 15, no. 4 (1988): 62.
- Bloom, J., J. Bloom. Steps to a successful civil arson investigation. *Speaking of Fire* (1989): 8.
- Bloom, J.M., B.J. Mason, R. Spier. Fire investigation, hazardous waste, and liability. *Fire and Arson Investigator* 41, no. 2 (1990): 33-36.
- Bloom, R., P. Glenn. What's a nice cop like you. *Police Product News* 5, no. 1 (1981): 48-49+.
- Blumberg, N.H. Arson update: A review of the literature on firesetting. *Bulletin of the American Academy of Psychiatry and the Law* 9, no. 4 (n.d.): 255-265.
- Boese, R.A., D.J. Stauffer. "Danger" lurking within the ashes. *National Fire and Arson Report* 8, no. 3 (1990): 1+.
- Boling, L., C. Broimen. Fire-setting epidemic in a state mental health care. *American Journal of Psychiatry* 132, no. 9 (1975): 946-950.
- Borriello, J.F. Patients with acting-out character disorders. *American Journal of Psychotherapy* 27, no. 1 (1973): 4-14.
- Bostrom, J.W. People, property, economies, insurance companies hurt, *Fire Control Digest* 11, no. 2 (1985): 6.
- Bottom, B. Fire for hire. *Fire Journal - Australia* (1989): 1 1-13.
- Bourget, D., J. Bradford. Fire fetishism, diagnostice and clinical implications: A review of two cases. *Canadian Journal of Psychiatry* 32, no. 6 (1987): 459-462.
- Bourget, D., J.M.W. Bradford. Female arsonists: A clinical study. *Bulletin of the American Academy of Psychiatry and the Law* 17, no. 3 (1989): 293-300.
- Brace, T.R. Analysis of arson in a socio-economic framework: Revisited, 1976-1978. *Fire and Arson Investigator* 31, no. 2 (1980): 21-44.
- Brace, T.R. Analysis of arson in a socio-economic framework: Revisited, 1976-1978. Conclusion. *Fire and Arson Investigator* 31, no. 3 (1981): 3-30.
- Brace, T.R. Executive summary highlights Seattle Arson Information Management System (AIMS project and excerpts). *Fire and Arson Investigator* 33, no. 1 (1982): 3-27.
- Brace, T.R. Seattle arson information management system (AIMS) project and excerpts of interest. *Fire and Arson Investigator* 33, no. 2 (1982): 3-13.
- Bradford, J.M.W. Arson. A clinical study. *Canadian Journal of Psychiatry* 27, no. 3 (1982): 188-193.
- Bradish, J. Conflagration destroys three city blocks. *Fire Command* 56, no. 2 (1989): 22-23+.
- Bradish, J.K. Pennsylvania: On the job. *Firehouse* 15, no. 9 (1990): 55-56.
- Bradtmitter, B., J. Buikstra. Effects of burning on human bone microstructure: A preliminary study, *Journal of Forensic Sciences* 29, no. 2 (1984): 535-540.
- Brady, J. Arson, urban economy, and organized crime. The case of Boston. *Social Problems* 31, no. 1 (1983): 1-27.
- Brady, J.P. Arson, fiscal crisis, and community action. Dialectics of an urban crime and popular response. *Crime and Delinquency* 28, no. 2 (1982): 247-270.
- Bragdon, C.A. Curious kids set fires. *Fire Control Digest* 15, no. 2 (1989): 1-4.
- Brannigan, F.L. Fire loss management: part 5: the unfriendly causes of fire. *Fire Engineering* 142, no. 8 (1989):

- Brannigan, F.L. History still holds its lessons: The Dachis Case. *Fire Engineering* 139, no. 1 (1986): 50-51.
- Braun, K.J., R.E. Ford. Organizing an arson task force. *FBI Law Enforcement Bulletin* 50, no. 3 (1981): 22-26.
- Breland, B., D. Gamache. Irons as causes of fires. *Fire and Arson Investigator* 38, no. 2 (1987): 39-41.
- Brenton, M. School Vandalism. *Today's Education* (1975): 82 and 85.
- Brenton, T.M. Arson investigation unit combines fire, police personnel. *Fire Command* 53, no. 8 (1986): 26+.
- Brewer, N.L. Fire destroys aerospace museum. *Fire Engineering* 131, no. 6 (1978): 24-25.
- Brogden, C. New Haven's arson alert training program. *International Fire Chief* 46, no. 5 (1980): 18-20.
- Brooks, L.D. The primeval fear of fire: A prosecutor's prospective. *Fire Arson Investigator* 1, no. 3 (1991): 14-16.
- Brown, K. Helping arson victims to cooperate. *Voice* 18, no. 8 (1989): 10.
- Brnnelle, R.L., D.D. Garner, P.L. Wineman. Quality assurance program for the laboratory examination of arson and explosives cases. *Journal of Forensic Sciences* 27, no. 4 (1982): 774-782.
- Bruno, H. Las Vegas replay eight killed, 300 injured in Hilton hotel fire. *Firehouse* 6, no. 4 (1981): 37-39+.
- Bryan, J.L., D.J. Icov. Recent advances in computer assisted arson investigation. *Fire Journal* 71, no. 1 (1977): 20-23.
- Bryan, J.L., D.J. Icov. Recent advances in computer assisted arson investigation. *Fire and Arson Investigator* 32, no. 2 (1977): 7-10.
- Bryson, B.R. Reagent test kit survey of electrical fires. *Fire and Arson Investigator* 24, no. 3 (1981).
- Building Official and Code Administrator. Social clubs - New York's happy land fire drew attention to code enforcement efforts in social club. *Building Official and Code Administrator* 39, no. 2 (1990): 28-33.
- Bullington, M.E. Comments on collecting accelerants from concrete. *Fire and Arson Investigator* 36, no. 4 (1986): 48.
- Bumann, T.A., D. Willis. Evidence for investigators. *Fire and Arson Investigator* 39, no. 1 (1988): 12.
- Bumpass, E.R., et al. A community-based program for juvenile firesetters. *Hospital and Community Psychiatry* 36, no. 5 (1985): 529-533.
- Bumpass, E.R., et at. Intervention with children who set fires. *American Journal of Psychotherapy* 37, no. 3 (1983): 328-345.
- Bums, R. Philadelphia: Nine die in worst arson in city's history. *Firehouse* 11, no. 10 (1986): 93-95.
- Butler, J.A. Motor vehicle fires in Ireland and the United Kingdom. *Fire Prevention* 195, (1986): 22-25.
- Buxton, W. Firemen, policemen and insurance people combine forces to combat arson, *Fire and Arson Investigator* 25, no. 3 (1975): 24-28.
- Byron, M.M. Mass spectrometry and arson analysis for the layman. *National Fire and Arson Report* 5, no. 2 (1987): 2-3.
- Byron, M.M. Sampling fire scenes. *National Fire and Arson Report* 8, no. 4 (1990): 6.
- Caldwell, P. Juvenile attention-getters. *Fire and Arson Investigator* 38, no. 3 (1988): 53-54.
- Callahan, J. Elusive goal: Proving fraudulent claim. *Fire Chief* 30, no. 7 (1986): 44+.
- Callahan, J. Philosophical essay. *Fire and Arson Investigator* 36, no. 3 (1986): 25.
- Campbell, C.A. FBI begins collection of national arson statistics. *International Fire Chief* 45, no. 2 (1979): 10-13.
- Campbell, D.H. Is this sniffer here to stay? *National Fire and Arson Report* 8, no. 5 (1990): 7.
- Campbell, W.J. Private fire investigators beware. *Fire and Arson Investigator* 37, no. 2 (1986): 17.
- Canavan, J. "Mongoose One" ploys and decoys of Boston's crack arson investigator. *Firehouse* 7, no. 8 (1982): 36-38.
- Canavan, J. Arson keeps the BFD running. *Firehouse* 4, no. 6 (1979): .
- Carmichael, W.C., J. Mazzone. Annual Report, 1986: Independent investigators advisory committee. *Fire and Arson Investigator* 37, no. 1 (1986): 7.
- Carmick, ST. Investigation of the defense of an arson claim. *Fire and Arson Investigator* 26, no. 5 (1976): 1-3.
- Carney, B.B. Charred document case made simple. *Fire and Arson Investigator* 35, no. 2 (1984): 17-19.
- Carpenter, D.J. Arson - A crime that lost prominence. Arson comittee report. *Fire and Arson Investigator* 28, no. 3 (1978): 10-22.
- Carpenter, D.J; Report of arson committee - arson investigation techniques. *International Fire Chief* 41, no. 10 (1975): 14-15.
- Carpenter, P.K., A.L. King. Epilepsy and arson. *British Journal of Psychiatry* 154 (1989): 554-556.
- Carstens, C. Application of a work penalty threat in the treatment of a case of juvenile fire setting, *Journal of Behavior Therapy and Experimental Psychiatry* 13, no. 2 (1982): 159-161.
- Carter, H.R. The fire protection community in America today. *Voice* 19, no. 2 (1990): 22-23.

- Carter, R.E. Arson and Arson Investigation in the United States. *Fire and Arson Investigator* 31, no. 2 (1976): 4-10.
- Carter, R.E. Arson epidemic. *Fire Service Today* 50, no. 3 (1983): 18-20.
- Carter, R.E. Arson fire problem. A national crisis. *Fire and Arson Investigator* 26, no. 4 (1976): 4-10.
- Carter, R.E. Industrial Arson. *Fire Journal* 77, no. 2 (1983): 53-55.
- Casey, J. Federal arson programs reviewed at fifth annual USFA conference. *Fire Engineering* 133, no.3 (1980): 46-48+.
- Casey, J. IAFC 102nd conference features workshops, EMS presentations editor. *Fire Engineering* 128, no.11 (1975): 71, 73-74+.
- Centor, E. New alliances. A community works together to successfully combat arson in St. Paul. *Firehouse* 6, no. 8 (1981): 50-52.
- Cerberus. Libraries, collections and works of art: Always at risk from fire or theft. *Fire and Security Engineering* 5 (1989): 1-4.
- Chambers, M. Lessons from the triangle factory fire. *The National Law Journal* 12, no. 38 (1990): 13.
- Chandler, G. Revenge arson a growing problem. *National Underwriter Property and Casualty, Risk and Benefits Management* no. 35 (1991): C1.
- Chapman, B. Volunteers prevent repetition of 1989 Main Street conflagration. *Fire Engineering* 130, no. 1 (1977): 47-48.
- Chemical and Engineering News. Fire losses jump, especially from arson. *Chemical and Engineering News* 55, no. 2 (1977).
- Chew, D. Flea and insect bombs. *California Fire Arson Investigator* 1, no. 4 (1991): 64.
- Chisum, W.J., T.R. Elzerman. Identification of arson accelerants by gas chromatographic patterns. *Journal of Forensic Science* 17, no. 2 (1972): 280-291.
- Chul, G. Stumped crime fighters, historians turn to atom smasher for clues. *Arizona Arson Investigator* 2, no. 4 (1991): 28-29.
- Churchward, D.L. Investigation of chimney fires. *National Fire and Arson Report* 7, no. 4 (1989): 1+.
- Clarke, B. Staff awareness: The key to combating arsonists in health care establishments. *Fire* 81, no. 1006 (1989): 31-32.
- Clausen, C.A., III. Early detection and entrapment of accelerants in fire atmospheres. Final report. *Arson Analysis Newsletter* 6, no. 6 (1982): 105-140.
- Clausen, C.A., III. Identification of accelerants in fire atmospheres. Final report, *Arson Analysis Newsletter* 7, no. 3 (1983): 56-68.
- Clede, B. Arson dog. *Law and Order* 36, no. 7 (1988): 40-42.
- Clodfelter, R.W. Comparison of decomposition products from selected burned materials with common arson accelerants. *Journal of Forensic Science* 22, no. 1 (1977): 116-118.
- Cloninger, D.O. Arson and abandonment: A restatement. *Journal of Risk and Insurance* 57, no. 3 (1990): 540-545.
- Coates, M., K. Loader. Ambulance station: Leicester. *Fire Prevention* no. 216 (1989): 43.
- Coates, M., K. Loader. Antiques warehouse and garage: Boumemouth, Dorset. *Fire Prevention* no. 236 (1991): 35.
- Coates, M., K. Loader. Army storage depot: Moreton on Lugg. Hereford and Worcester. *Fire Prevention* no. 227 (1990): 33.
- Coates, M., K. Loader. Bus garage: Newbury, Berkshire. *Fire Prevention* no. 221 (1989): 44.
- Coates, M., K. Loader. Car/passenger ferry: At sea, between Oslo and Fredrikshavn. *Fire Prevention* no. 239 (1991): 28-29.
- Coates, M., K. Loader. Carpet manufacturer: Blackburn, Lancashire. *Fire Prevention* no. 212 (1988): 42.
- Coates, M., K. Loader. Carpet warehouse: Northampton. *Fire Prevention* no. 235 (1990): 34.
- Coates, M., K. Loader. Church: Hurst Green, Surrey. *Fire Prevention* no. 217 (1989): 45.
- Coates, M., K. Loader. Clothing warehouse: Leeds, West Yorkshire. *Fire Prevention* no. 215 (1988): 41.
- Coates, M., K. Loader. College: Coventry, West Midlands. *Fire Prevention* no. 236 (1991): 41.
- Coates, M., K. Loader. College: Darlington, County Durham. *Fire Prevention* no. 214 (1988): 44.
- Coates, M., K. Loader. Comprehensive school: Gateshead, Tyne and Wear. *Fire Prevention* no. 223 (1989): 49.
- Coates, M., K. Loader. Department store: Milton Keynes, Buckinghamshire. *Fire Prevention* no. 229 (1990): 35-36.
- Coates, M., K. Loader. Department store: Plymouth, Devon. *Fire Prevention* no. 223 (1989): 45.
- Coates, M., K. Loader. Disused buildings: Halifax, West Yorkshire. *Fire Prevention* no. 214 (1988): 43.
- Coates, M., K. Loader. Dwelling fires: Newmarket, Suffolk. *Fire Prevention* no. 227 (1990): 40.
- Coates, M., K. Loader. Fibre sorters: Bradford, West Yorkshire. *Fire Prevention* no. 214 (1988): 42.
- Coates, M., K. Loader. Furniture manufacturers: Little Budworth. *Fire Prevention* no. 225 (1989): 47.
- Coates, M., K. Loader. Furniture manufacturers: Trowell, Nottinghamshire. *Fire Prevention* no. 233 (1990): 40.

Coates, M., K. Loader. Furniture warehouse/printers: Gloucester dock. *Fire Prevention* no. 211 (1988): 44.

Coates, M., K. Loader. Garden centre: Bury St. Edmunds, Suffolk. *Fire Prevention* no. 220 (1989): 44.

Coates, M., K. Loader. Hospital nurses home: Edinburgh. *Fire Prevention* no. 224 (1989): 41.

Coates, M., K. Loader. Hotel: London SW1. *Fire Prevention* no. 214 (1988): 47.

Coates, M., K. Loader. Hotel: Perth, Tayside. *Fire Prevention* no. 212 (1988): 45.

Coates, M., K. Loader. Ice cream manufacturer: Oldbury, Warley, West Midlands. *Fire Prevention* no. 240 (1991): 40.

Coates, M., K. Loader. Kitchen furniture manufacturer: Bacup, Lancashire. *Fire Prevention* no. 228 (1990): 40.

Coates, M., K. Loader. Leisure center: Bedford, Bedfordshire. *Fire Prevention* no. 220 (1989): 42.

Coates, M., K. Loader. Middle school: Leeds, West Yorkshire. *Fire Prevention* no. 212 (1988): 43.

Coates, M., K. Loader. Multiple occupancy: Middlesbrough, Cleveland. *Fire Prevention* no. 240 (1991): 39.

Coates, M., K. Loader. Nail warehouse: Warrington, Cheshire. *Fire Prevention* no. 215 (1988): 44.

Coates, M., K. Loader. Office fires: Enfield, London. *Fire Prevention* no. 227 (1990): 42.

Coates, M., K. Loader. Passenger/freight ferry: At sea, North West of Milford Haven, Dyfed, Wales. *Fire Prevention* no. 239 (1991): 30-31.

Coates, M., K. Loader. Plastic injection moulders: Alfreton, Derbyshire. *Fire Prevention* no. 215 (1988): 42.

Coates, M., K. Loader. Plastic packaging manufacturer: Huntingdon, Cambridgeshire. *Fire Prevention* no. 238 (1991): 36.

Coates, M., K. Loader. Polypropylene manufacturer: Bradford, West Yorkshire. *Fire Prevention* no. 226 (1990): 40.

Coates, M., K. Loader. Primary school: Mancot, Clwyd. *Fire Prevention* no. 212 (1988): 44.

Coates, M., K. Loader. Public house: Deptford, London SE8. *Fire Prevention* no. 240 (1991): 37.

Coates, M., K. Loader. Public house: Seaham, Durham. *Fire Prevention* no. 225 (1989): 50.

Coates, M., K. Loader. Residential school: Dursley, Hampshire. *Fire Prevention* no. 240 (1991): 40.

Coates, M., K. Loader. Retail shop: Reading, Berkshire. *Fire Prevention* no. 223 (1989): 48.

Coates, M., K. Loader. Road construction site: Kansas City, Missouri, USA. *Fire Prevention* no. 231 (1990): 40-41.

Coates, M., K. Loader. Rochester Castle: Rochester, Kent. *Fire Prevention* no. 235 (1990): 38.

Coates, M., K. Loader. School fires: Skelmersdale, Lancashire. *Fire Prevention* no. 228 (1990): 47.

Coates, M., K. Loader. School fires: Washington, Tyne and Wear. *Fire Prevention* no. 228 (1990): 49.

Coates, M., K. Loader. School: Coventry, West Midlands. *Fire Prevention* no. 240 (1991): 41.

Coates, M., K. Loader. School: Denton, Greater Manchester. *Fire Prevention* no. 225 (1989): 51.

Coates, M., K. Loader. School: Humberston, Grimsby. *Fire Prevention* no. 234 (1990): 37.

Coates, M., K. Loader. School: Leeds, West Yorkshire. *Fire Prevention* no. 218 (1989): 46.

Coates, M., K. Loader. School: Loughborough, Leicestershire. *Fire Prevention* no. 218 (1989): 47.

Coates, M., K. Loader. School: Newcastle-upon-Tyne, Tyne and Wear. *Fire Prevention* no. 236 (1991): 40.

Coates, M., K. Loader. School: Newton Aycliffe, County Durham. *Fire Prevention* no. 237 (1991): 37.

Coates, M., K. Loader. School: Preston, Lancashire. *Fire Prevention* no. 235 (1990): 40.

Coates, M., K. Loader. School: Rochdale, Greater Manchester. *Fire Prevention* no. 221 (1989): 46.

Coates, M., K. Loader. School: Runcom, Cheshire. *Fire Prevention* no. 215 (1988): 49.

Coates, M., K. Loader. School: Wigan, Greater Manchester. *Fire Prevention* no. 229 (1990): 42.

Coates, M., K. Loader. Supermarket: Cheltenham, Gloucestershire. *Fire Prevention* no. 224 (1989): 47.

Coates, M., K. Loader. Textile factory: Leicester. *Fire Prevention* no. 216 (1989): 45.

Coates, M., K. Loader. Textile factory: Sarwen, Lancashire. *Fire Prevention* no. 217 (1989): 43.

Coates, M., K. Loader. Textile retailer: Blackpool, Lancashire. *Fire Prevention* no. 216 (1989): 47.

Coates, M., K. Loader. Timber yard: King's Lynn, Norfolk. *Fire Prevention* no. 230 (1990): 46-47.

Coates, M., K. Loader. Unoccupied building: Otley, West Yorkshire. *Fire Prevention* no. 224 (1989): 47.

Coates, M., K. Loader. Unoccupied warehouse: Bradford, West Yorkshire. *Fire Prevention* no. 239 (1991): 40.

Coates, M., K. Loader. Unoccupied warehouse: Bradford, West Yorkshire. *Fire Prevention* no. 239 (1991): 40.

Coates, M., K. Loader. Warehouse: Birmingham. *Fire Prevention* no. 228 (1990): 45.

Coates, M., K. Loader. Warehouse: Bury St. Edmunds, Suffolk. *Fire Prevention* no. 233 (1990): 39.

Coates, M., K. Loader. Warehouse: Glenfield, Leicestershire. *Fire Prevention* no. 218 (1989): 38.

Coates, M., K. Loader. Warehouse: Golborne, Cheshire. *Fire Prevention* no. 222 (1989): 52.

Coates, M., K. Loader. Warehouse: Holywell, Clywd. *Fire Prevention* no. 233 (1990): 37.

Coates, M., K. Loader. Warehouse: Ipswich, Suffolk. *Fire Prevention* no. 234 (1990): 30.

Coates, M., K. Loader. Hotel and leisure complex: Loch Lomond, Strathclyde. *Fire Prevention* no. 239 (1991): 34.

Coates, M., K .Loader. Starch warehouse: Littleborough, Rochdale, Lancashire. *Fire Prevention* no. 238 (1991): 39-40.

Cofer, D.W. Arson investigation. *Fire Engineering* 138, no. 6 (1985): 51-54.

Cole, L.S. Transmission fires a misunderstood fire source. *Fire and Arson Investigator* 39, no. 2 (1988): 32.

Coleman, R.J. Arson investigators get real fire experience at unusual school. *Fire Engineering* 130, no. 12 (1977): 28-29.

Collins, P.J. Arson, fraud fires and related insurance fraud. Part 1. *Fire and Arson Investigator* 32, no. 1 (198 1): 21-28.

Collins, P.J. Arson, fraud fires and related insurance fraud. Part 2. *Fire and Arson Investigator* 32, no. 2 (1981): 17-26.

Comer, W.J. Three factories, 5 houses destroyed by fast-spreading incendiary fire. *Fire Engineering* 131, no. 8 (1978): 38-39.

Commerce America. Firebell in the night. Closing in on arson. *Commerce America* (1976): 11-12.

Commerce America, Taking the profit out of arson. *Commerce America* (1977): 4-5.

Conaway, C.W. Incendiary fires in industrial occupancies. *Fire Journal* 70, no. 2 (1976): 28-33.

Conner, P, Fire smart kids out to douse danger early. *Fire and Arson Investigator* 42, no. 1 (1991): .

Connolly, J.M. Busted in Boston. How private investigators smashed a major arson conspiracy. *Firehouse* 7, no. 8 (1982): 33-34+.

Connor, J.A. Arson investigation. *Military Police Law Enforcement Journal* 1, no. 5 (1975): 50-51.

Conway, W. Arson epidemic: Suspicious fires on the rise; reward offered for information leading to a conviction. *West Virginia Fire Arson Investigator* 1, ,no. 2 (1991): 11.

Cooksy, D.D. Joining forces to combat arson. *Fire Command* 47, no. 4 (1980): 39.

Coppock, W.G. Arson. What in blazes is it all about. National Underwriter. *Property and Casualty Insurance Edition* (1981): 21.

Corral, E.A., CD. McKinney. Classifying juvenile arsonists. *Fire Command* 52, no. 10 (1985): 32-33.

Corry, R.A. Solving an impossible arson case. *Fire and Arson Investigator* 41, no. 1 (1990): 36-37.

Cotreau, M.R. The legal aspects of arson investigation. *Fire Engineering* 143, no. 1 (1990): 61-63.

Coudal, E. How investigators use new methods to determine fire cause suspicious origin. *Firehouse* 6, no. 5 (1981): 32-34+.

Courtney, N. Arson attempt failed: Pennsylvania. *Fire Journal* 82, no. 6 (1988): 19.

Courtney, N. Arson fire destroys demolished building: Wyoming. *Fire Journal* 82, no. 5 (1988): 87.

Courtney, N. Arson fire kills two: Colorado. *Fire Journal* 81, no. 6 (1987): 17.

Courtney, N. Arsonist causes \$436,000 in damages. *Fire Journal* 80, no. 2 (1986): 16.

Courtney, N. Arsonist damages eatery: Ontario, Canada. *Fire Journal* 84, no. 1 (1990): 13.

Courtney, N. Arsonist linked to 50 fires. *Fire Journal* 80, no. 2 (1986): 15-16.

Courtney, N. Arsonist strikes as students sleep: Kansas. *Fire Journal* 84, no. 1 (1990): 15.

Courtney, N. Arsonist torches abandoned school building: Mississippi. *NFPA Journal* 85, no. 3 (1991): 27.

Courtney, N. Barn burned for revenge: California. *Fire Journal* 82, no. 6 (1988): 19.

Courtney, N. Building under construction: Residential sprinkler controls arson fire: California. *Fire Journal* 83, no. 6 (1989): 21.

Courtney, N. Combustible construction voids conceal fire: California. *Fire Journal* 84, no. 4 (1990): 20.

Courtney, N. Disconnected sprinklers no help in fire: New Jersey. *Fire Journal* 84, no. 4 (1990): 23.

Courtney, N. Dumpster fire spreads to building: Indiana. *Fire Journal* 84, no. 4 (1990): 19.

Courtney, N. Fire walls save mall stores: Washington State. *Fire Journal* 84, no. 2 (1990): 19.

Courtney, N. Frozen pipes defeat fire protection system: Michigan. *Fire Journal* 83, no. 1 (1989): 15.

Courtney, N. Improper operation of HVAC leads to fire: Oregon. *Fire Journal* 84, no. 5 (1990): 21.

Courtney, N. Incendiary fire causes \$110,000 loss: California, November 1984. *Fire Journal* 79, no. 11 (1985): 13-14.

Courtney, N. Incendiary fire causes \$110,000 loss: California, November 1984. *Fire Journal* 79, no. 11 (1985): 13-14.

Courtney, N. Incendiary fire claims two lives: Florida. *Fire Journal* 83, no. 5 (1989): 17.

Courtney, N. Incendiary fire damages pickle plant: Colorado. *Fire Journal* 84, no, 5 (1990): 10-21.

Courtney, N. Incendiary fire destroys housing for elderly: Massachusetts. *Fire Journal* 81, no. 4 (1987): 29.

Courtney, N. Incendiary fire destroys lumberyard Colorado. *Fire Journal* 84, no. 5 (1990): 21.

Courtney, N. Incendiary fire doused by sprinkler: Washington State. *Fire Journal* 82, no. 3 (1988): 27.

Courtney, N. Incendiary fire kills two: Maryland, March 1986. *Fire Journal* 81, no. 2 (1987): 17.

Courtney, N. Incendiary fire suppressed by sprinklers: Ohio. *Fire Journal* 82, no. 3 (1988): 28.

Courtney, N. Juvenile firesetters destroy building: Alberta, Canada. *Fire Journal* 84, no. 1 (1990): 15-16.

Courtney, N. Refuse fire in warehouse causes large loss: Hawaii. *NFPA Journal* 85, no. 1 (1991): 31.

Courtney, N. Shopping mall: youths set \$100,000 fire: Florida. *Fire Journal* 83, no. 4 (1989): 17.

Courtney, N. Sprinkler squelches attempted arson: North Carolina. *Fire Journal* 82, no. 1 (1988): 20;

Courtney, N. Sprinklered motel spared as neighboring structure burns: California. *Fire Journal* 84, no. 5 (1990): 18.

Courtney, N. Sprinklers spare supermarket building: Massachusetts. *NFPA Journal* 85, no. 1 (1991): 28.

Courtney, N. Student arrested for arson: Illinois. *Fire Journal* 82, no. 4 (1988): 13.

Courtney, N. Students set fire in stairway: Virginia. *Fire Journal* 81, no. 5 (1987): 22+.

Courtney, N. Suspected arsonist dies in incendiary fire: California. *Fire Journal* 82, no. 2 (1988): 17.

Courtney, N. Transient arrested in incendiary fire: California, April 1985. *Fire Journal* 79, no. 6 (1985): 13.

Courtney, N. Two different fires in toy store occur in similar circumstances: Illinois. *NFPA Journal* 85, no. 1 (1991): 29.

Courtney, N. Two injured during risky escape: California. *Fire Journal* 84, no. 5 (1990): 17-18.

Courtney, N. Vandalism fires do \$60,000 damage: North Dakota. *Fire Journal* 83, no. 2 (1989): 17.

Courtney, N. Vandals ignite synthetic grass: Illinois. *Fire Journal* 84, no. 6 (1990): 15.

Courtney, N. Young arsonist destroys building: New York. *Fire Journal* 83, no. 5 (1989): 17-18.

Coututier, D. Michigan: Fordney Hotel fire ravages city block. *Firehouse* 16, no. 12 (1991): 82-84.

Cover, R.C. Observations of an amateur on questions and answers in fire and arson investigations. *Fire and Arson Investigator* 28, no. 2 (1977): 49-53.

Cowell, D.E. Implosive therapy in the counseling of a pupil who set fires. *British Journal of Guidance and Counseling* 13, no. 2 (1985): 157-165.

Crawford, M.A. Arson control. Putting out the fire. *Security Management* 27, no. 10 (1983): 12-15, 17-18.

Cribley, C.E. Evidence for arson cases. Part 1. What is valid evidence. *Fire Chief* 23, no. 2 (1979): 35-36.

Cribley, C.E. Evidence for arson cases. Part 2. Gathering evidence. *Fire Chief* 23, no. 3 (1979): 43-46.

Cribley, C.E. Evidence for arson cases. Part 3. Handling and recording evidence. *Fire Chief* 23, no. 4 (1979): 66-68.

Crommelin, R.D., F.H.E. Renger. Fight against arson in the Netherlands. *Fire Prevention* no. 188 (1986): 29-30.

Cronk, P., B. Hager, L. Titus. Fighting fire with fire. *Fire Engineering* 142, no. 6 (1989): 51-53.

Crossley, T., R. Guzman. The relationship between arson and pyromania. *American Journal of Forensic Psychology* 3, no. 1 (1985): 39-44.

Cullom, Keith. Santa Ana condition + arsonist = wildfire. *American Fire Journal* 43, no. 1 (1991): 22-23.

Culp, P.C. Winning your arson case. *Minnesota Fire Chief* 23, no. 3 (1987): 58.

Custer, R.L.P., C.J. Wright. Open windows and thermal inversions may complicate a fire investigation. *Fire and Arson Investigator* 34, no. 4 (1984): 14-16.

Daines, G.D. Don't forget it. *Fire Management Notes* 46, no. 3 (1985): 20-21.

Dalton, R. Alternative therapy with a recalcitrant fire-setter. *Journal of the American Academy of Child Psychiatry* 25, no. 5 (1986): 713-717.

Damant, G.H. Should polyurethane foam be banned? *Fire and Arson Investigator* 42, no. 2 (1991): 48-52.

Davie, B. Investigation of mobile home fires. *Fire and Arson Investigator* 39, no. 1 (1988): 49-51.

Davie, B. Investigation of mobile home fires. *National Fire and Arson Report* 6, no. 4 (1988): 1+.

Davie, B.W. Facts hazards and investigative considerations of mobile home fires: part 1. *National Fire and Arson Report* 9, no. 1 (1991): 1+.

Davie, B.W. Facts, hazards, and investigative considerations of mobile home fires: part II. *National Fire and Arson Report* 9, no. 2 (1991): 10-11.

Davis, J.R. Detection of gasoline as an accelerant. *Fire and Arson Investigator* 30, no. 4 (1980): 55-61.

Davis, J.R. Michigan v. Tyler: Its effect on the fire service. *Fire Command* 46, no. 2 (1979): 22-25.

Davis, J.R. Warrant requirement in crime scene searches. *Fire and Arson Investigator* 32, no. 1 (1981): 3-12.

Davis, K.C. Concept for an arson intelligence exchange. *Fire and Arson Investigator* 29, no. 1 (1979): 22-25.

Davis, K.C. Concept for an arson intelligence exchange. *Fire and Arson Investigator* 29, no. 1 (1978): 39-42.

Davis, R.C. Be thorough: Take samples. *National Fire and Arson Report* 3, no. 6 (1986): 7+.

Davis, R.D. *Arson investigation: A new approach*. International Association of Fire Chiefs 44, no. 4 (1987): 9-11;

Dawson, D.B. Other fires and other frauds: New encouragement to find the evidence. *Fire and Arson Investigator* 37, no. 4 (1987): 52-53.

De Los Santos, E. Dungeons and dragons. *New Mexico Fire Arson Investigator* 1, no. 3 (1990): 24-25;

Deakin, T.J. Arson and the FBI Academy: Psychologically profiling the arsonist. *Firehouse* 14, no. 8 (1989): 51-52.

DeArmond, H.T. Automobile arson investigation. *Fire and Arson Investigator* 25, no. 3 (1975): 16-18.

DeHaan, J. Quality control of fire scene investigations. *Fire and Arson Investigator* 40, no. 3 (1990): 14.

DeHaan, J.D. Are localized burns proof of flammable liquid accelerants? *Fire and Arson Investigator* 38, no. 1 (1987): 45-49.

DeHaan, J.D.. Determining the point of origin: diagnostic signs and laboratory analysis. *Fire and Arson Investigator* 36, no. 4 (1986): 37-40.

DeHaan, J.D. Laboratory aspects of arson: Accelerants, devices, and targets. *Fire and Arson Investigator* 29, no..3 (1979): 39-46.

Delibert, A. Arson-prone buildings: Home owners accountable. *Firehouse* 9, no. 8 (1984): 49-50.

Delibert, A. Devising strategies to beat firesetters. Residential arson: Opportunity knocks. *Firehouse* 10, no. 8 (1985): 36-38+.

Delibert, A. Residential arson: opportunity knocks. *Firehouse* 10, no. 8 (1985): 36-38+.

Delpace, M., E. Vos. Electric short circuits help the investigator determine where the fire started. *Fire and Arson Investigator* 37, no. 2 (1986): 42-45.

Demers, D.P. Ten die in Greece, New York Hotel Fire. *Fire Journal* 73, no. 4 (1979): 25-30.

Dempster, D., M. Spicer. When can a fire testify? *Fire and Arson Investigator* 41, no. 1 (1990): 19-25.

Deny, L. Study of United States fire experience, 1977. *Fire Journal* 72, no. 5 (1978): 67-72+.

DeSalvatore, F., R. Hornstein. Juvenile firesetting: Assessment and treatment in psychiatric hospitalization. *Child and Youth Care Forum* 20, no. 2 (1991): 103-114.

Dickinson, C. Cold storage warehouse turns up the heat. *Fire Engineering* 143, no. 5 (1990): 32-34+.

Dietz, W.R. Improved charcoal packaging for accelerant recovery by passive diffusion. *Journal of Forensic Sciences* 36, no. 1 (1991): 111-121.

Dietz, W.R. Physical evidence of arson: Its recognition, collection and packaging. *Fire and Arson Investigator* 41, no. 1 (1991): 33-39.

Diezel, H.E. Incendiary fires in 22-story condominium. *Fire Chief* 19, no. 6 (1975): 33-35.

Dillon, B. Comments on melted metals. *Fire and Arson Investigator* 37, no. 4 (1987): 33-35.

Dinges, D.F., E.C. Orne, M.T. Orne. Forensic use of hypnosis: Part 1. *National Fire and Arson Report* 3, no. 2 (1985): 1+.

Dinges, D.F., E.C. Orne, M.T. Orne. Forensic use of hypnosis: Part 2. *National Fire and Arson Report* 3, no. 3 (1985): 5-7+.

Dinges, D.F., E.C. Orne, M.T. Orne. Use of hypnosis: Part 3. *National Fire and Arson Report* 3, no. 4 (1985): 7+.

Ditzel, P. Caught red-handed: LAFD and PD join forces to capture serial arsonist. *Firehouse* 14, no. 8 (1989): 55+.

Donahue, M.L. Computer help for arson busters. *Fire Command* 55, no. 9 (1988): 10-12.

Donahue, M.L. Fire scene examination and the Fourth Amendment. *Fire and Arson Investigator* 38, no. 1 (1987): 22-24.

Donahue, M.L. The fire department's role in arson detection. Speaking offire (1989): 1+.

Donahue, M.L. Using case solvability factors for arson investigation. *Fire Chief* 35, no. 9 (1991): 75-77.

Donahue, M.L., C.A. Campbell. Investigation of motor vehicle fires. Part 1. *Firehouse* 15, no. 8 (1990): 58-60.

Donahue, M.L., C.A. Campbell. Investigation of motor vehicle fires. Part 2. Recommended investigative procedures. *Firehouse* 15, no. 11 (1990): 42-46.

Donoghue, L.R., A.J. Simard, W.A. Main. Determining the economic relationship between law enforcement activities and arson wildfires. *Journal of Environmental Management* 25, no. 4 (1987): 377-393.

Donoghue, L.R., A.J. Sutton. Training fire sleuths of the forest. *Fire Management Notes* 47, no. 1 (1986): 3-5.

Dorriety, J.K. Accelerant detector dogs are valuable investigation tools. *Fire Chief* 35, no. 6 (1991): 50.

Dunn, R.R. Persuasive expert testimony. *Fire and Arson Investigator* 41, no. 4 (1991): 25-29.

Durham, P.M. ATF on the move. *Alabama Fire Arson Investigator* 1, no. 4 (1991): 14-15.

Durham, W.C.; D. Williams. Fire: Child's play - asking juvenile firesetters the right questions. *Firehouse* 13, no. 8 (1988): 86+.

Dynes, K. Case of arson. *Fire Prevention* 180 (1985): 23-26.

Eastman Kodak Company. Cameras and camera functions. *National Fire and Arson Report* 3, no. 5 (1985): 8-10.

Eastman Kodak Company. Close-up photography and photomacrography. *National Fire and Arson Report* 3, no. 6 (1986): 8-9+.

Eastman Kodak Company. Crime scene photography. *National Fire and Arson Report* 4, no. 2 (1986): 8-11.

Eastman Kodak Company. Using photography to preserve evidence: Part 1. *National Fire and Arson Report* 3, no. 2 (1985): 8-10.

- Eastman Kodak Company. Using photography to preserve evidence: Part 2. *National Fire and Arson Report* 3, no. 3 (1985): 8-10.
- Eastman Kodak Company. Using photography to preserve evidence: Part 3. *National Fire and Arson Report* 3, no. 4 (1985): 8-9+.
- Eastman Kodak Company, Using photography to preserve evidence: Part 6: Photographic examination. *National Fire and Arson Report* 4, no. 1 (1986): 8-9+.
- Eaton, T.E. Comments on floating neutrals as a cause of fires. *Fire and Arson Investigator* 36, no. 12 (1985): 46-47.
- Eaton, T.E. Fire transfer. *Fire and Arson Investigator* 40, no. 3 (1990): 42-48.
- Eaton, T.E. Logs in sawmill fires. *Fire and Arson Investigator* 41, no. 1 (1990): 29-30.
- Eaton, T.E. Underfloor fires. *Fire and Arson Investigator* 38, no. 1 (1987): 57-59.
- Eckert, A.W. Baffling burning death. *Fire and Arson Investigator* 31, no. 4 (n.d.): 27-38.
- Econ, D. Arson control program. *Fire and Arson Investigator* 25, no. 3 (1975): 1-3.
- Edwards, J. Voice analyzer helps screen arson suspects. *Fire Command* 46, no. 2 (1979): 20.
- Edwards, L.F. Insurance costs. Up and almost away. *Nations Schools* 85, no. 2 (1970): 41-55+.
- Eggum, G.J. Right evidence jails arsonists. *Minnesota Fire Chief* 25, no. 5 (1989): 77.
- Eisler, R.M. Crisis intervention in the family of a firesetter. *Psychotherapy: Theory, Research and Practice* 9, no. 1 (1972): 76-79.
- Eisner, H. Devils night. *Firehouse* 17 (1992): 58-59.
- Eisner, H. Devils, night. *Firehouse* 10, no. 1 (1985): 58-59+.
- Eisner, H. First report: Bronx social club; arson fire kills 87. *Firehouse* 15, no. 5 (1990): 28.
- Eisner, H. Heat is on. *Firehouse* 12, no. 2 (1987): 38-41.
- Eisner, H. National Run Survey, 1988. *Firehouse* 14, no. 6 (1989): 47-48+.
- Eisner, H. New Jersey. 14 die in arson fire at Paterson Hotel. *Firehouse* 9, no. 12 (1984): 39-40+.
- Eisner, H. One more time: Devil's night arson spree declines in Detroit. *Firehouse* 13, no. 3 (1988): 76-77.
- Eisner, H. Return to Detroit. *Firehouse* 11, no. 2 (1986): 43-46.
- Eisner, H. Trailing the red devil. *Firehouse* 10, no. 1 (1985): 60.
- Elaad, E., M. Kleiner. Stimulation test in polygraph field examinations. A case study. *Journal of Police Science and Administration* 14, no. 4 (1986): 328-333.
- Elkayam, R., M. Frenkel, S. Natanyan, S. Tsaroom. Evaporation of gasoline and kerosene from polyethylene containers. *Fire and Arson Investigator* 40, no. 3 (1990): 21-23.
- Ellis, C.S. Right to separate EUO. *National Fire and Arson Report* 7, no. 5 (1989): 12.
- Engright, J., A.L. Pisani. Striking back: The New York experience. *Firehouse* 11, no. 9 (1986): 22+.
- Epstein, S., LEAA and arson control. *International Fire Chief* 45, no. 2 (1979): 16-18.
- Equifax, Inc. Insurance fraud. A national disgrace. *Equifax Magazine* (1976).
- Estep, M.H., D.J. Iove. Motive-based offender profiles of arson and fire-related crimes. *Fire and Arson Investigator* 37, no. 4 (1987): 45-48.
- Estep, M.H., W.W. Caddington. Organizing to fight arson. *Fire Command* 44, no. 5 (1977): 20-21.
- Ettling, B. Electrical wiring in structure fires. *Fire and Arson Investigator* 25, no. 4 (1975): 2-9.
- Ettling, B. Will gasoline cause the undersides of boards to burn? *Fire and Arson Investigator* 40, no. 3 (1990): 32-33.
- Ettling, B.V. Analysis of paraffin wax in fire remains. *Journal of Forensic Sciences* 20, no. 3 (1975): 476-483.
- Ettling, B.V. Electrical fire cause: Further comments and cautions. *Fire and Arson Investigator* 36, no. 12 (1985): 37-39.
- Ettling, B.V. Electrical fire causes: Some comments and cautions. *Fire and Arson Investigator* 35, no. 4 (1985): 29-31.
- Ettling, B.V. Electrical path through poor contacts. *Fire and Arson Investigator* 36, no. 3 (1986): 29-30.
- Ettling, B.V. Electrical path through poor contacts. *National Fire and Arson Report* 3, no. 2 (1985): 11-12.
- Ettling, B.V. Guide for interpreting damage to electrical wires. *Fire and Arson Investigator* 37, no. 2 (1986): 46-47.
- Ettling, B.V. Is fire investigation a profession? *Fire and Arson Investigator* 37, no. 1 (1986): 8.
- Ettling, B.V. MGM fire: Re-examining the alleged cause. *National Fire and Arson Report* 3, no. 6 (1986): 3+.
- Ettling, B.V. MGM Grand. *National Fire and Arson Report* 4, no. 2 (1986): 2-5.
- Ettling, B.V. MGM Grand: Re-examining the alleged cause: Part 2. *National Fire and Arson Report* 4, no. 1 (1986): 6+.
- Ettling, B.V. The significance of alligatoring of wood char. *Fire and Arson Investigator* 41, no. 2 (1990): 12-15.
- Evans, C., L. Elberu. Arson. *Minnesota Fire Chief* 13, no. 5 (1977): 10-11+.

Factory Mutual Record. Arson puzzle. Can the pieces be put together. *Record* 55, no. 2 (1978): 3-9.

Factory Mutual Research Corporation. Investigation into cases of arson. *Mapfre Seguridad* 15, no. 3 (1984): 51-54.

Fahy, R.F., AL. Norton, How being poor affects fire risk. *Fire Journal* 83, no. 1 (1989): 28-30+.

Federal Emergency Management Agency. Doubletree hotel fire, New Orleans, LA. *Building Standards* 57, no. 3 (1988): 11.

Feinman, P. Fighting arson in New Jersey. *Fire Command* 45, no. 2 (1987): 28-29.

Feld, L.G. There is more to arson than harmful burning. *Fire Chief* 21, no. 12 (1977): 27-28.

Felton, B. N.Y.C. strike force. Arson cut 60%. *Firehouse* 3, no. 1 (1978): 20-21+.

Fernando, J. Arson is a dirty word. *Fireline* (1976): 16-17.

Ferrall, R.T. Arson information, who, what, where. *FBI Law Enforcement Bulletin* 50, no. 5 (1981): 16-22.

Ferrell, D. New clues arise in trial by fire. *California Fire Arson Investigator* 2, no. 1 (1991): 36-40.

Fetterly, J.L. Legal aspects and the alternatives to the investigator. Part 1. *Fire and Arson Investigator* 30, no. 1 (1979): 3-32.

Few, E.W. Tracking arsonist in America's national forest. *Firehouse* 15, no. 8 (1990): 34-35+.

Few, E.W. Tracking down arsonists in America's national forests. *Wildfire News and Notes* 4, no. 4 (1990): 13-14.

Field, A.T. Is the insured's consent necessary to inspect damaged property after a loss? *National Fire and Arson Report* 4, no. 1 (1986): 4+.

Field, L.G. Strengthening arson laws. *Fire Chief* 26, no. 1 (1982): 56.

Fineman, K.R. Firesetting in childhood and adolescence. *Psychiatric Clinics of North America* 3, no. 3 (1980): 483-500.

Fineman, K.R. Suppression of fire play. *Fire and Arson Investigator* 37, no. 2 (1986): 29.

Finneran, J.M. Automatic drip coffee maker fires. *Fire and Arson Investigator* 39, no. 3 (1989): 22-23.

Finneran, J.M. Potential fire hazard: Automatic drip coffee makers. *National Fire and Arson Report* 6, no. 5 (1988): 1+.

Fire. Arson and vandalism: A disturbing social trend. *Fire* 70, no. 875 (1978): 584,+.

Fire. Is tripartite approach needed. *Fire* 73, no. 909 (1981): 515.

Fire. Public relations vital in efforts to cut rising losses through arson. *Fire* 73, no. 909 (1981): 513-514.

Fire. Stardust fire. Tribunal told of arson theories. *Fire* 74, no. 919 (1981): 515.

Fire. Vandalism and arson account for a third of country's fire losses. *Fire* 73, no. 901 (1980): 102.

Fire Administration. Fire in the United States: An information background from the U.S. Fire Administration. *Fire and Arson Investigator* 41, no. 2 (1990): 26-27.

Fire and Arson Investigator. Aluminum wiring. *Fire and Arson Investigator* 26, no. 2 (1975): 50-52.

Fire and Arson Investigator. Arson. A crime that lost prominence. Arson committee report IAFC. Part 1. *Fire and Arson Investigator* 28, no. 3 (1978): 10-22.

Fire and Arson Investigator. Arson. A crime that lost prominence. IAFC arson committee report. Part 2. *Fire and Arson Investigator* 28, no. 4 (1978): 10-22.

Fire and Arson Investigator. Circumstantial evidence vs. direct evidence. *Fire and Arson Investigator* 30, no. 1 (1979): 33-41.

Fire and Arson Investigator. Conviction for arson - order of sentencing. People v. Wolf and Berland, circuit court, Cook County. *Fire and Arson Investigator* 25, no. 3 (1991): 54-55.

Fire and Arson Investigator. Crime in these United States. *Fire and Arson Investigator* 39, no. 2 (1988): 30-31.

Fire and Arson Investigator. Forensic science committee position on comparison samples. *Fire and Arson Investigator* 41, no. 2 (1990): 50-51.

Fire and Arson Investigator. Glossary of insurance terms. *Fire and Arson Investigator* 26, no. 3 (1976): 1-3.

Fire and Arson Investigator. In the supreme court of Ontario court of appeal. *Fire and Arson Investigator* 31, no. 2 (1979): 38-51.

Fire and Arson Investigator. Legal aspects and the alternatives to the investigator. *Fire and Arson Investigator* 31, no. 2 (1979): 3-37.

Fire and Arson Investigator. Study of children who set fires. *Fire and Arson Investigator* 39, no. 4 (1989): 47-50.

Fire and Arson Investigator. Taking the profit out of arson. *Fire and Arson Investigator* 28, no. 4 (1978): 53-57.

Fire and Arson Investigator. Teamwork in fire scene and arson investigations. *Fire and Arson Investigator* 25, no. 3 (1975): 22-26.

Fire and Arson Investigator. Tongue-tripper for arsonists. *Fire and Arson Investigator* 27, no. 1 (1976): 48-49.

Fire Chief. Computer helps spot arsonists. *Fire Chief* 19, no. 6 (1975): 38-39.

Fire Chief. USFA conference: Focus on arson. *Fire Chief* 42, no. 2 (1980): 44-55+.

Fire Chief Magazine. Senate hearings on arson. *Fire Chief Magazine* 22, no. 11 (1978): 45-49.

Fire Command. Arson lab fights fires with facts. *Fire Command* 46, no. 2 (1979): 32.

Fire Command. Examining state responsibility for fire/arson investigation. *Fire Command* 45, no. 2 (1978): 24-25.

Fire Control Digest. Arson fire kills 87 in worst mass slaying in U.S. history. *Fire Control Digest* 16, no. 4 (1990): 1-4.

Fire Engineering. FBI arson tally to be low, USFA data chief charges. *Fire Engineering* 133, no. 4 (1980): 50-52.

Fire Engineering. Ohio lab devoted to analysis of arson clues. *Fire Engineering* 128, no. 4 (1975): 35-36.

Fire Engineering. Study throws light on arson problem. *Fire Engineering* 130, no. 2 (1977): 59.

Fire International. How data analysis can help defeat arson. *Fire International* no. 82 (1983): 39-41.

Fire International. Sprinkler systems: Some recent German case histories. *Fire International* 74 (1982): 31-32.

Fire Journal. 42 die in Maury County, Tennessee, jail fire. *Fire Journal* 72, no. 2 (1978): 30-33+.

Fire Journal. Arson in Seattle Hotel. *Fire Journal* 69, no. 6 (1975): 5-6.

Fire Journal. Fire at Stouffer's Inn Harrison, New York. A preliminary report. *Fire Journal* 75, no. 4 (1981): 44-46.

Fire Journal. Five die in Danbury, Connecticut, federal correctional institution fire. *Fire Journal* 72, no. 2 (1978): 38-42.

Fire Journal. How a state can quench the torch of an arsonist. *Fire Journal* 73, no. 2 (1979): 30-32.

Fire Prevention. Access Control. *Fire Prevention* no. 211 (1988): 22-28.

Fire Prevention. Action against fires caused by vandalism. *Fire Prevention* no. 136 (1980): 18-22.

Fire Prevention. Arson: The leading cause of serious fires. *Fire Prevention* no. 107 (1979): 36-39.

Fire Prevention. Arson and vandalism. *Fire Prevention* no. 144 (1981): 15-19.

Fire Prevention. Car/passenger ferry. At sea, between Oslo and Fredrikshavn. *Fire Prevention* no. 239 (1991): 28-29.

Fire Prevention. FPA/FRS large fires analysis for 1980. *Fire Prevention* no. 149 (1982): 10-13.

Fire Prevention. Need for greater security against arson. *Fire Prevention* no. 125 (1978): 20-23.

Fire Prevention. Passenger/freight ferry. At sea, northwest of Milford, Dyfed Wales. *Fire Prevention* no. 239 (1991): 30-31.

Fire Prevention. Tyre fires: A pile of pollution - Hagersville, Ontario, Canada. *Fire Prevention* no. 241 (1991): 22-23.

Fire Protection. Law, the courts and arson. *Fire Protection* 15, no. 2 (1988): 5-9.

Fire Supplement. Arson: What is the cause and what is the cure?. *Fire Supplement* (1978): 36-37.

Firehouse. New York - Bronx social club arson claims 87 lives. *Firehouse* 15, no. 6 (1990): 46-48.

Fisher, M. Can automobile arson be stopped?. *Firehouse* 16, no. 5 (1991): 70-71+.

Fisher, P.E. National program to control arson. *Firehouse* 4, no. 8 (1978): 38-38+.

Fisher, R.J. Arson prevention. *Journal of Security Administration* 1, no. 2 (1978): 44-50.

Fisher, R.P. Critical analysis of police interview techniques. *Journal of Police Science and Administration* 15, no. 3 (1987): 117-185.

Fisher, R.X. How the pathologist can aid the arson investigator. *Fire and Arson Investigator* 35, no. 3 (1985): 19-24.

Fleishman, B.R., J.W. Yates. Defense of insurance claims: Part 1. *National Fire and Arson Report* 3, no. 2 (1985): 1-3+.

Fleishman, B.R., J.W. Yates. Defense of insurance claims: Part 2. *National Fire and Arson Report* 3, no. 3 (1985): 11-13+.

Fleishman, B.R., J.W. Yates. Defense of insurance claims: Part 3. *National Fire and Arson Report* 3, no. 4 (1985): 10+.

Fleishman, B.R., J.W. Yates. Defense of insurance claims: Part 4. *National Fire and Arson Report* 3, no. 5 (1985): 6.

Fleszar-Szumigajowa, J. Perpetrators of arson in forensic-psychiatric material. *Polish Medical Journal* 8, no. 1 (1969): 212-219.

Fogle, J.L. In a fire scene, what does a tripped circuit breaker indicate?. *Fire and Arson Investigator* 35, no. 4 (1985): 9-10.

Ford, R.T. Fire scene investigation of grassland and forest fires. *Fire and Arson Investigator* 38, no. 3 (1988): 45-52.

Ford, R.T. Ten common failures in fire scene investigation. *National Fire and Arson Report* 6, no. 5 (1988): 9+.

Ford, R.T. Ten common failures in fire scene investigation. *Fire and Arson Investigator* 37, no. 2 (1986): 39.

Foster, G.D. Written statement analysis. *National Fire and Arson Report* 3, no. 2 (1985): 5.

Foster, G.D. F. Link. Image of the interviewer. *National Fire and Arson Report* 3, no. 1 (1985): 7.

Fosters, G.D. Kinesic control of the interviewee. *National Fire and Arson Report* 7, no. 6 (1989): 8-9+.

- Fowler, T.A. Arsonbusters: Where there's smoke, there's Samson and Bugs. *Arizona Arson Investigator* 2, no. 4 (1991): 24-26.
- Fowler, W. Fire and the terrorist: A perfect combination? *Speaking of Fire* (1990): 1+.
- Franklin, F.F. Circuit breakers: The myth of safety. *Fire and Arson Investigator* 41, no. 4 (1991): 42-45.
- Frenkel, M., S. Tsaroom, Z. Aizenshtat, S. Kraus, D. Daphna. Enhanced sensitivity in analysis of arson residues. An absorption-tube/gas chromatograph method. *Journal of Forensic Sciences* 29, no. 3 (1984): 723-731.
- Freudenheim, B. Most neglected crime in the United States. *Barrister* 7, no. 2 (1980): 11-14+.
- Gaddy, W.F. Clarification requested. *Communications Link* 8, no. 4 (1987): 19.
- Gall, R. Fire scene photography: A zoom with a view. *California Fire Arson Investigator* 2, no. 1 (1991): 34-35.
- Galvin, M. The new fire triangle: Putting the prosecutor on the team. *Police Chief* 57, no. 12 (1990): 50-52.
- Galvin, M., J.P. Toscano. New fire triangle. Putting the prosecutor on the team. *Prosecutor* 24, no. 4 (1991): 12-15.
- Galvin, M.M. Arson - a prosecutable case. *Minnesota Fire Chief* 25, no. 2 (1988): 8-9.
- Galvin, M.M. Prosecutable case of arson. *Fire and Arson Investigator* 39, no. 1 (1988): 59-61.
- Gamm, J.A. Defense vs. offense or the bad guys vs. the good guys. *Fire and Arson Investigator* 35, no. 4 (1985): 32-33+.
- Gamm, J.A. Defense vs. offense or the bad guys vs. the good guys, continued. *Fire and Arson Investigator* 35, no. 3 (1985): 43-50.
- Garfinkel, M.J. Mandatory settlement conferences. *California Fire Arson Investigator* 2, no. 1 (1991): 41.
- Gardner, R.L. How the Bureau of Alcohol, Tobacco and Firearms (ATF) assists state and local agencies. *Fire and Arson Investigator* 32, no. 4 (1982): 3-6.
- Garten, M.A. Capillary gas chromatography of isoparaffinic accelerants. *Arson Analysis Newsletter* 6, no. 4 (1982): 64-72.
- Garvey, B. DNR investigates wildland fires. *Minnesota Fire Chief* 23, no. 6 (1987): 10-11.
- Gauen, P.E. St. Louis: Arsonist strikes 20-story downtown hotel. *Firehouse* 12, no. 8 (1987): 47+.
- Gaynor, J. Linkages between childhood firestarting and adult arson crime: A secondary analysis of convicted ars. *Fire and Arson Investigator* 37, no. 4 (1987): 36-37.
- Gaynor, J. Youthful firesetting: A problem in search of a solution. *Fire and Arson Investigator* 35, no. 4 (1985): 22-24.
- Gaynor, J., T.G. Huff, C.L. Karchmer. Linkages between childhood firestarting and adult arson crime: A secondary analysis of convicted arson. *Fire and Arson Investigator* 37, no. 4 (1987): 36-37.
- Geller, J.L. A historical appraisal of America's experience with pyromania: A diagnosis in search of a disorder. *International Journal of Law and Psychiatry* 9, no. 2 (1986): 210-229.
- Georges, D.E., M.M. Zandi. Study of bombings, incendiaries, and bomb threats in the city of Dallas, TX for the year 1975. *Journal for Environmental Systems* 8, no. 1 (1978-1979): 57-97.
- Gerhardstein, M.C. Revision of the Illinois Arson Statute. *Fire and Arson Investigator* 38, no. 2 (1987): 14.
- Gilman, R., D.J. Icove. Arson reporting immunity laws. *National Fire and Arson Report* 7, no. 5 (1989): 3+.
- Gilomen, E.R. Arsonists disrupt Christmas calm. *Fire Command* 47, no. 3 (1980): 22-23.
- Gladis, S.D., J.E. Hess. Benevolent interrogation. *National Fire and Arson Report* 8, no. 6 (1990): 8-10.
- Glavin, M., J.P. Toscano. New fire triangle. Putting the prosecutor on the team. *Police Chief* 57, no. 12 (1990): 50-52.
- Godnight, K.M. Arson for profit. The insurance investigation. *The Police Chief* 57, no. 12 (1990): 53.
- Goebell, J. Cable plugs and their use in fire protection. *Fire International* 11, no. 103 (1987): 404-441.
- Gohar, M.M. Accelerant behavior in fire. *Fire and Arson Investigator* 24, no. 2 (1983): 29-32.
- Goldberg, R.S. Voice stress analysis for arson investigation. *Fire and Arson Investigator* 33, no. 3 (1983): 27-30.
- Golden, J. Understanding crime-lab work makes for better arson investigators, firefighters. *American Fire Journal* 36, no. 6 (1984): 44-47.
- Goodnight, K.M. Arson for profit: The insurance investigation. *Police Chief* 57, no. 12 (1990): 53-56.
- Goodnight, K.M. Arson/fraud indicators for insurance fire claims. *National Fire and Arson Report* 9, no. 1 (1991): 10-11+.
- Goodnight, K.M. Concept of investigation. *National Fire and Arson Report* 5, no. 6-7 (1987): 6-7.
- Goodnight, K.M. Conducting the insurance arson investigation. *National Fire and Arson Report* 9, no. 2 (1991): 1+.
- Goodwin, W.C. Arson report from Indiana. *Firehouse* 4, no. 9 (1979): 50,+.
- Gordon, J.C. Practical tips for expert witnesses. *National Fire and Arson Report* 8, no. 5 (1990): 12-13.
- Grapin, P. Legal sanctions against arson in the European penal codes. *Revue De Science Criminelle Et De Droit Penal Compare* no. 3 (1976): 611-628.

Greene, R. Fire for hire. *Forbes* (1979)

Greenslade, T. Arson-the prevention nightmare. *Voice* 18, no. 9 (1989): 18-19.

Grimes, M.E. National problem of arson. *Fire journal* 71, no. 5 (1977): 67-72+.

Grimwood, P. Arsonists exploiting weaknesses in BS 476: Expert witnesses must look at "real fires". *Fire* 81, no. 1007 (1989): 45.

Grimwood, P.T. Britain is facing growing arson problem. *Fire* 72, no. 895 (1980): 428-429.

Grimwood, P.T. Controlling arson: Can Britain learn from American methods?. *Fire* 73, no. 905 (1980): 311.

Grimwood, P.T. Guide through the maze of arson laws. *Fire Engineers Journal* 40, no. 118 (1980): 19-20.

Groah, M.L. Arson fire snuffs out another life. *Fire Command* 47, no. 10 (1980): 22-23.

Gromwood, P. Legislators must look at the arsonist's tactics before a fire-fighter dies. *Fire* 80, no. 995 (1988): 27.

Gross, C. Department responds to juvenile firesetters. *NFPA Journal* 85, no. 1 (1991): 22-23.

Gruehn, R.L. To be prepared is everything. *Fire and Arson Investigator* 39, no. 1 (1988): 54.

Gudmann, J.C., B. Dillon, Multiple seats of fire: The hot gas layer, *Fire and Arson Investigator* 38, no. 3 (1988): 61-62.

Guldager, S. Arson control in Detroit. *Firehouse* 4, no. 8 (1979): 44-45+.

Gunderson, J.G. Management of manic states: The problem of fire setting. *Psychiatry* 37 (1974): 136-146.

Gwertzman, M.J. Legal analysis of arson and fraud fires. *Fire and Arson Investigator* 29, no. 1 (1978): 3-16.

Gwertzman, M.J. Legal analysis of arson and fraud fires. Part 2. Conclusion. *Fire and Arson Investigator* 29, no. 2 (1978): 329.

Haan, J. Laboratory aspects of arson reconstruction. *Fire and Arson Investigator* 31, no. 1 (1980): 40-48.

Haan, J.D. Report on congress of criminalists: Arson, *Arson Analysis Newsletter* 3, no. 1 (1979): 2-8.

Haba, K., K. Ito. Four cases of criminal post-mortem bums. *Acta Criminologica Et Medicinae Legalis Japonica* 40, no. 2 (1974): 51-55.

Hacker, G.L. Electrical fire myths. *Fire and Arson Investigator* 41, no. 4 (1991): 48-50.

Hall, J.R. Arson is down, but fight continues. *Hazard Monthly* 66, no. 8 (1986): 3.

Hall, J.R. Arson: A report with new facts. *Fire News* (1986): 2.

Hall, J.R. NFPA 1985 arson report. *Fire and Arson Investigator* 37, no. 3 (1987): 16.

Hall, J.R., Jr. Fire on the tracks. *NFPA Journal* 85, no. 1 (1991): 101-105.

Hall, J.R., Jr. Look at juvenile firesetting and fireplay with special emphasis on the role of matches and lighters. *Fire Journal* 83, no. 2 (1989): 26-30.

Hallman, D. Safety of portable kerosene heaters in residential applications. *Fire and Arson Investigator* 41, no. 1 (1990): 54-57.

Halverson, D.A. Arson: Crime of opportunity. *Minnesota Fire Chief* 25, no. 1 (1988): 85+.

Hambrick, SK. No trial for Adkins: Pleads no contest. *West Virginia Fire Arson Investigator* 1, no. 2 (1991): 12-13.

Hammett, T.M. Arson prosecution: Ingredients for success. *Firehouse* 10, no. 8 (1985): 52-54.

Hammett, T.M. Pulling together against arson. *Firehouse* 11, no. 8 (1986): 44-45.

Hammett, T.M. Systematic study reveals new findings. *Firehouse* 10, no. 8 (1985): 52-54.

Hammond, R. Examination under oath: An effective tool to wield on arson-for-profit insurance claims. *Fire and Arson Investigator* 41, no. 3 (1991): 36-37.

Hankes, L.V. Financial motive in incendiary fires and fraud. Part III: Relationship of fraudulent claims to the. *National Fire and Arson Report* 6, no. 6 (1988): 8-10.

Hankins, K. Arson and the police officer. *Fire and Arson Investigator* 42, no. 1 (1991): 22-23.

Hanson, F.R., R. Blackburn. Arson: Its effect and control. *Fire Surveyor* 9, no. 3 (1980): 33-38.

Harkins, M.W. The torch seekers. The hunt for the arsonists who scorch our state. *California* 15, no. 10 (1990): 14.

Harmon, R.B.; R. Rosner; M. Widerlight. Women and arson. A demographic study, *Journal of Forensic Science* 30, no. 2 (1985): 467-477.

Harris, J.W. Cramping your arsonist's style and cutting energy costs. All by computer. *Thrust for Educational Leadership* 11, no. 1 (1981): 18-19.

Hart, F. Arson equation: Arson = circumstantial evidence = conviction. *Police Chief* 57, no. 12 (1990): 34-37.

Hartnett, D.M. Bombing and arson investigations enhanced by advances in ATF labs. *The Police Chief* 57, no. 4 (1990): 20.

Hartnett, D.M. The arsonist meets his match. *National Fire and Arson Report* 8, no. 6 (1990): 1+.

Hartnett, K. Symphony road fire murders. *Nation's Cities* 16, no. 2 (1978): 17-20.

- Harwood, B. Fire hazards involving children playing with cigarette lighters. *Fire and Arson Investigator* 38, no. 4 (1988): 38-44.
- Haupt, D.E. Arson sleuth. A new kind of fireman combats the nation's most rampant crime. *Life* 6 (1983): 32.
- Hayllar, B. Fighting fire through the mail. *Fire and Arson Investigator* 25, no. 4 (1975): 10-18.
- Heath, A., et al. Firesetting, enuresis, and animal cruelty. *Journal of Child and Adolescent Psychotherapy* 1, no. 2 (1984): 97-100.
- Heath, A.G., et al. Diagnosis and childhood firesetting. *Journal of Clinical Psychology* 41, no. 4 (1985): 571-575.
- Heath, G.A., et al. Childhood firesetting. *Canadian Psychiatric Association Journal* 21, no. 4 (1976): 229-237.
- Heineke, J.M. Modeling arson. An exercise in qualitative model building. *IEEE Transactions Systems Man and Cybernetics* 2mc-5, no. 4 (1975): 457-463.
- Heller, M.S., et al. Childhood cruelty to animals, firesetting, and enuresis. *Journal of General Psychology* 110, no. 2 (1984): 151-153.
- Hellmiss, G. Recent development in the criminal investigation of arson and indoor explosions. *Schriftenreihe der Polizei-Fuehrungsschule* no. 1 (1983): 43-56.
- Hemmeter, P.A. Vacant buildings lead to arson, undue demands on fire service. *Fire Engineering* 128, no. 9 (1975): 42,45.
- Henderson, K.L., R.W. Henderson, G.R. Lightsey. Barometric kerosene heaters: Design considerations. *National Fire and Arson Report* 7, no. 1 (1989): 4+.
- Henderson, K.L. A simple introduction to gas chromatography (GC). *National Fire and Arson Report* 7, no. 3 (nd.): 3+.
- Henderson, R.W. Barometric kerosene heaters. *Fire and Arson Investigator* 39, no. 3 (1989): 26-27.
- Henderson, R.W. Metals in fire: Thermodynamics of ferrous metals. *National Fire and Arson Report* 4, no. 2 (1986): 1-2+.
- Henderson, R.W. Problems facing insurance carriers in investigating fire losses: The fire investigator and flammable. *National Fire and Arson Report* 8, no. 3 (1990): 8-9.
- Henderson, R.W., G.R. Lightsey. Barometric kerosene heater fires - part II. *National Fire and Arson Report* 9, no. 1(1991): 12-13.
- Henderson, R.W., G.R. Lightsey. Kerosene heater fires: Barometric type. *National Fire and Arson Report* 6, no. 1 (1988): 1+.
- Henderson, R.W., G.R. Lightsey. Theoretical combustion. *National Fire and Arson Report* 3, no. 5 (1985): 7+.
- Henderson, R.W., G.R. Lightsey. Theoretical vs. observed flame temperatures during combustion of wood products. *Fire and Arson Investigator* 36, no. 12 (1985): 5.
- Henderson, S.R. Bottom-fed kerosene heater fires. *National Fire and Arson Report* 6, no. 2 (1988): 4+.
- Henry, P.T. Insurance industry helps New York City prevent arson in abandoned buildings. *Fire Journal* 77, no. 5 (1983): 30-33+.
- Herbert, R.L. Arson and vandalism in schools: What can the educational psychologist do?. *Educational Psychology in Practice* 6, no. 2 (1990): 65-70.
- Hershberger, R.A., R.K. Miller. Impact of economic conditions on the incidence of arson. *Journal of Risk and Insurance* 45, no. 2 (1978): 275-290.
- Hertzendorf, B. Fast action foils the torch of an arsonist. *Fire Command* 51, no. 1 (1984): 31.
- Heston, T.B. 20-foot gorilla attacks fire fighters? *Fire Command* 52, no. 7 (1985): 14-16.
- Higgins, J.A. Small county gets tough on arsonists. *American Fire Journal* 4, no. 2 (1986): 42-43+.
- Higgins, K.M., M.K. Higgins, C.L. Oakes, S.F. Braverman. High-speed extraction of accelerants from arson debris. *Journal of Forensic Sciences* 29, no. 3 (1984): 874-880.
- Higgins, S.E. Arsonist's trail: Federal agency employs new methods to track firesetters. *Firehouse* 13, no. 8 (1988): 67+.
- Higgins, S.E. Innovative canine training program sniffs out accelerants. *Firehouse* 14, no. 8 (1989): 114+.
- Higgins, S.E. Portrait of a serial arsonist. The newest tool in the war against arson. *Firehouse* 15, no. 8 (1990): 54-57.
- Hill, R.W., R. Langevin, D. Paitich, L. Handy, A. Russon, L. Wilkinson. Is arson an aggressive act or a property offense? A controlled study of psychiatric referrals. *Canadian Journal of Psychiatry* 27, no. 8 (1982): 648-654.
- Hill, S.W. Is your fire investigator a law enforcement officer? Or should he be? A hypothetical situation. *Fire and Arson Investigator* 28, no. 3 (1978): 31-37.
- Hine, J.R. Tackling commercial arson. *Firehouse* 38, no. 5 (1986): 39+.
- Hobe, K., U. Stoerzer. Young arsonists, part 2. *Kriminolist* 8, no. 8 (1976): 462-468.
- Hobe, K., U. Stoerzer. Young arsonists, part one. *Kriminolist* 8, no. 7 (1976): 381-390.

- Hocking, J.E., et al. Videotape in the courtroom. *Trial Magazine* (1978): 52-55.
- Hoffman, A. E. Zeiske. Stages of a "respectable" businessman, kiting, exchange bills and checks, arson. *Kriminalistik* 31, no. 6 (1977): 259-267.
- Hoffman, D.B., Y.M. Rho. Investigation of fatal fires: Part 2: Views of the medical examiner and toxicologist. *Fire and Arson Investigator* 37, no. 3 (1987): 25-28.
- Hoffman, J. Arson after the fact. *New Mexico Fire Arson Investigator* 2, no. 2 (1991): 16-17.
- Hoffmann, J. Arson: After the fact. 9-1-1 *Magazine* 2, no. 2 (1991): 40-41.
- Hoffmann, J.W., W. Keith. Explosion! Six Kansas City Missouri, firefighters die in ammonium nitrate blast. *Firehouse* 14, no. 1 (1989): 46-47+.
- Hogan, P. Adolescent mind and arson: Part 1. *Fire and Arson Investigator* 25, no. 5 (1975): 1-3.
- Hogan, P. Adolescent mind and arson: Part 2: Conclusion. *Fire and Arson Investigator* 26, no. 5 (1976): 1-3.
- Hogg, A.B.C. Arson increase and fire investigation. *Fire Engineers Journal* 42, no. 125 (1982): 5-80.
- Holmes, P.A. Pennsylvania: Five-alarm arson fire induces collapse and destroys part of downtown Williamsport. *Firehouse* 13, no. 8 (1988): 73-74+.
- Hopper, W.H. Arson's Corpus Delicti. *Fire and Arson Investigator* 27, no. 4 (1977): 29-44.
- Hopper, W.H. Elements necessary for an arson conviction. *Fire and Arson Investigator* 35, no. 4 (1985): 25-26+.
- Horbert, P.R., D.J. Icove. Serial arsonists: An introduction. *Police Chief* 57, no. 12 (1990): 46-48.
- Howard, G.M. Successful interviews. *Alabama Fire Arson Investigator* 4, no. 1 (1991): 12-13.
- Howlett, C., R. Lee. Firestorm engulfs San Diego neighborhood. *American Fire Journal* 37, no. 10 (1985): 26-29+.
- Huddleston, P., E.G. Sullivan. Protecting your files from discovery by opposing parties. *National Fire and Arson Report* 5, no. 1 (1987): 1-3+.
- Hughes, G.M. How to form an arson squad. *Firehouse* 4, no. 8 (1978): 52-57.
- Humphreys, J.B. Fire in the woods: Forest Service agents track down wildland arsonists. *Firehouse* 13, no. 8 (1988): 51+.
- Hurley, W., T.M. Monahan. Arson: The criminal and the crime. *British Journal of Criminology* 9, no. 1 (1969): 4-21.
- Hurst, D.A. Torch's reward: What insurance claims people should know about arson. *Fire and Arson Investigator* 25, no. 3 (1975): 1-3.
- Hurteau, W.K. Arson investigation and the collecting of evidence: Part 1. *Security World* 11, no. 3 (1974): 18-19+.
- Hurteau, W.K. Was that an arson fire. *Fire Command* 44, no. 8 (1977): 30-31.
- Hutchison, W.R. Demise of evidence photography. *Fire and Arson Investigator* 11, no. 8 (1986): 18.
- Hutton, M.A. Financial red flags for homeowners, arson or fraudulent claims. *National Fire and Arson Report* 7, no. 6 (1989): 1+.
- IAFC On Scene 5, no. 22 (1991): 1-2.
- Icove, D.J. Arson reporting immunity laws, *The FBI Law Enforcement Bulletin* 58, no. 6 (1989): 14.
- Icove, D.J. Automated crime profiling. *National Fire and Arson Report* 5, no. 3 (1987): 6-7+.
- Icove, D.J. Serial arsonists. An introduction. *The Police Chief* 57, no. 12 (1990): 46.
- Icove, D.J.; H.J. Crisman. Application of pattern recognition in arson investigation. *Fire Technology* 11, no. 1 (1975): 35-41.
- Icove, D.J., M.H. Estep. Motive-based offender profiles of arson and fire-related crimes. *Fire and Arson Investigator* 37, no. 4 (1987): 45-48.
- Icove, D.J., P.R. Horbert. Serial arsonists: An introduction. *Police Chief* (1990): 46-47.
- Inbau, F.E. Common misconceptions about interrogations and confessions, *Fire and Arson Investigator* 37, no. 3 (1987): 58-60.
- Indiardi, J.A. Adult firesetter: A typology. *Criminology* 8, no. 2 (1970): 145-155.
- Ingram, J.D. Reducing the incentive for arson. The "Broad Evidence Rule". *Drake Law Review* 29, no. 4 (1979-1980): 761-774.
- Insurance Committee for Arson Control. Another challenge. *Dispatch* 8, no. 2 (1985): 6.
- Insurance Committee for Arson Control. Status report on arson-reporting immunity legislation. *Fire and Arson Investigator* 40, no. 4 (1990): 36-39.
- International Association of Arson Investigators. National Arson Awareness Week. *Fire and Arson Investigator* 37, no. 1 (1986): 3.
- International Association of Chiefs of Police Bureau of Operations and Research. Arsonist. *Training Key* no. 300 (1980): .

- International Association of Fire Fighters. Arson fires growing threat to fire fighters. *International Association of Fire Fighters* 57, no. 11 (1974): 6.
- International Association of Fire Fighters. Arson suspected in fatal blast. *International Association of Fire Fighters* 59, no. 2 (1976): 8-10.
- International Fire Chief. Prison fires stir action. *International Fire Chief* 43, no. 7 (1977): 57-72.
- International Fire Fighter, Arson. Seattle fights back. *International Fire Fighter* 60, no. 3 (1977): 6-7.
- International Fire Fighter. Dallas puts heat on arsonists. *International Fire Fighter* 62, no. 2 (1979): 8-9+.
- International Fire Fighter. Judge "burns" Tacoma arsonist. *International Fire Fighter* 60, no. 11 (1977): 13.
- Isaac, S.M. Fraud fire case. *Fire and Arson Investigator* 25, no. 3 (1975): 27-37.
- Isner, M. Case in review: Fraternity house fire, Berkeley, California, September 8, 1990. *Fire and Arson Investigator* 42, no. 2 (1991): 56-60.
- Isner, M. Case in review: Fraternity house fire, Berkeley, California, September 8, 1990. *Fire and Arson Investigator* 42, no. 2 (1991): 56-60.
- Isner, M.S. Fire fighter dies in warehouse fire. *Fire Command* 57, no. 8 (1990): 30-35.
- Isner, M.S. Fire in Los Angeles central library causes \$22 million loss. *Fire Journal* 81, no. 2 (1987): 56-59+.
- Isner, M.S. Kansas City tragedy: Part 1. *Fire Command* 56, no. 4 (1989): 15-21.
- Isner, M.S. Kansas City tragedy. Part 2. *Fire Command* 56, no. 5 (1989): 35-38.
- Iverall, I.P., A. LeCouteur. Firesetting in an adolescent boy with Asperger's Syndrome. *British Journal of Psychiatry* no. 157 (1990): 284-287.
- Jackson, H.F., S. Hope, C. Glass. Why are arsonists not violent offenders. *International Journal of Offender Therapy and Comparative Criminology* 31, no. 2 (1987): 143-151.
- Jackson, J.W. Secret witness program. *California Fire Arson Investigator* 1, no. 4 (1991): 16-17.
- Jackson, J.W. Secret witness program. *California Fire Arson Investigator* 1, no. 3 (1990): 17-20.
- Jackson, P.G. Assessing the validity of official data on arson. *Criminology* 26, no. 1 (1988): 181-195.
- Jackson, R. Insuring against arson. *Firehouse* 4, no. 8 (1979): 45-47.
- Jackson, R.J. Effective use of arson immunity laws, *Police Chief* 52, no. 8 (1985): 59-63+.
- Jackson, R.J. Insurer's role in arson prevention. *Fire Journal* 70, no. 2 (1976): 45-47.
- Jacobson, R.R. Child firesetters: A clinical investigation. *Journal of Child Psychology and Psychiatry and Allied Disciplines* 26, no. 5 (1985): 759-768.
- Jacobson, R.R. The subclassification of child firesetters. *Journal of Child Psychology and Psychiatry and Allied Disciplines* 26, no. 5 (1985): 769-775.
- Jakacki, J., M.E. Kurz, B. McCaskey. Effects of container size and volatility on relative detectability of accelerants by purge and trap. *National Fire and Arson Report* 3, no. 1 (1985): 8-10.
- Jasler, C., P. Jasler. Ritualistic crime. *New Mexico Fire Arson Investigator* 1, no. 2 (1990): 10-13.
- Jason, N.H. Research and development. Federal programs develop new arson technologies. *Firehouse* 6, no. 8 (1981): 54-55.
- Jayne, B.C. Investigator's digest: Factual analysis (part 1). *National Fire and Arson Report* 6, no. 2 (1988): 6-8.
- Jayne, B.C. Investigator's digest: Factual analysis (part II). *National Fire and Arson Report* 6, no. 3 (1988): 9-11.
- Jeffries, E.S. Ask the right question and the case is yours. *California Fire Arson Investigator* 2, no. 1 (1991): 10-12.
- Jeffries, E.S. Hidden arson statute. *New Mexico Fire Arson Investigator* 1, no. 2 (1990): 20-21.
- Jeffries, E.S. Murphy's law rules trial testimony. *Fire and Arson Investigator* 41, no. 4 (1991): 22-23.
- Jeffries, E.S. Murphy's law rules trial testimony. *New Mexico Fire Arson Investigator* 1, no. 3 (1990): 6-7.
- Jeffries, E.S. NM Supreme Court is on the brink of embracing defense of comparative bad faith. *New Mexico Fire Arson Investigator* 2, no. 2 (1991): 7-8.
- Jenaway, W.F. Arson prevention, not conviction. *Fire Command* 47, no. 8 (1980): 14.
- Jensen, D.A. Public record information. *Fire and Arson Investigator* 36, no. 3 (1986): 18.
- Jerome, I. Update on arson fires 1990. *Fire Prevention* no. 242 (1991): 16.
- Jerome, I. Update on arson fires 1990. *Fire Prevention* 242, no. 16 (1991): 16.
- Johanson, M.D., S.C. Smith. Alibis: Not necessarily the end of the road. *New Mexico Fire Arson Investigator* 1, no. 4 (1991): 7.
- Jonat, C. Arson: How it affects our lives; Student winning essay, Vancouver, B.C.. *Fire and Arson Investigator* 35, no. 4 (1985): 11-12.
- Jones, B.R. Putting the fire scene in perspective. *Fire and Arson Investigator* 38, no. 3 (1988): 59-60.
- Jones, D.R. Profiling offenders: FBI computer technology generates crime-solving data. *Firehouse* 12, no. 8 (1987): 66+.

- Jones, N. Arson-for-profit investigations, success or failure? Recovering water damaged business records. *Fire and Arson Investigator* 40, no. 3 (1990): 50-52.
- Journal of American Insurance, Arson: Epidemic in America. *Journal of American Insurance* 50, no. 3 (1974): 1-2+.
- Juhala, J.A. Method for absorption of flammable vapors by direct insertion of activated charcoal into the debris. *Arson Analysis Newsletter* 62, no. 2 (1982): 34-40.
- Juillerat, E.E. Fires and vandals. How to make them both unwelcome in your schools. *American School Board Journal* 159, no. 7 (1972): 23-26.
- Juillerat, E.E., Jr. Fires and vandals: How to make them both unwelcome in your schools, *American School Board Journal* 159, no. 7 (1972): 23-26.
- Junghans, F. What are flammable limits? *Fire and Arson Investigator* 41, no. 2 (1990): 38-39.
- Junghans, F. What is flash point? *Fire and Arson Investigator* 40, no. 3 (1990): 58-60.
- Kamman, B. Fire origin and cause investigation: a diagnostic study. *Fire and Arson Investigator* 35, no. 4 (1985): 13-16.
- Kantrowitz, S.B. Expert testimony and scientific evidence in arson-related cases. *Journal of Forensic Sciences* 26, no. 1(1981): 142-152.
- Karchmer, C. After the fire. *Firehouse* 12, no. 6 (1987): 62-63.
- Karchmer, C. America still burning. *Firehouse* 5, no. 8 (1980): 34-35+.
- Karchmer, C. Arson roundup. Fighting arson coast-to-coast. *Firehouse* 4, no. 8 (1978): 31.
- Karchmer, C. Battle plan for the 1980's grassroots maneuvers. Doing more with less. *Firehouse* 6, no. 8 (1981): 44-46.
- Karchmer, C. Snuffing out arson: Federal agencies combat incendiary crime. *Firehouse* 12, no. 8 (1987): 63+.
- Karchmer, C. Underworld turns fire into profit. *Fire and Arson Investigator* 2, no. 8 (1978): 45-52.
- Karchmer, C.L. Arson 1989. *Fire Control Digest* 15, no. 9 (1989): 3-4.
- Karchmer, C.L. Arson 1990. *Firehouse* 15, no. 8 (1990): 30.
- Karchmer, C.L. Arson and the mob. Special report. *Firehouse* (1977): 22-27, 68-69.
- Karchmer, C.L. Arson focus 1983. Overview of today's incendiary problems. *Firehouse* 8, no. 8 (1983): 45+.
- Karchmer, C.L. Arson update. *Firehouse* 16, no. 8 (1991): 29.
- Karchmer, C.L. Changing face of arson. *Firehouse* 9, no. 8 (1984): 47-48.
- Karchmer, C.L. Fight against arson. What the government is doing. *Firehouse* 2, no. 10 (1977): 57+.
- Karchmer, C.L. Getting even. A close look at revenge-motivated arson and techniques for preventing it. *Firehouse* 7, no. 8 (1982): 40-42-43.
- Karchmer, C.L. How to fight the arson racketeer. *Journal of Insurance* (1978): 22-25.
- Karchmer, C.L. When young firesetters come of age. *Firehouse* 37, no. 2 (1986): 37-38.
- Karchmer, C.L. Young arsonists. *Society* 22 (1984): 78-83.
- Karp, M.L. "Wishbone Offense". A two pronged attack against arson. *Fire and Arson Investigator* 32, no. 2 (1981): 3-8.
- Karp, M.L. Wishbone offense. A two-pronged attack against arson. *Forum* 14, no. 2 (1978): 205-214.
- Kazdin, A.E., D.J. Kolko. Motives of childhood firesetters: Firesetting characteristics and psychological correlates. *Journal of Child Psychology and Psychiatry and Allied Disciplines* 32, no. 3 (1991): 535-550.
- Keith, W.A. Missouri: Arsonist steals Christmas from Grandview warehouse. *Firehouse* 13, no. 3 (1988): 40-42+.
- Kelly, R.L., R.M. Martz. Accelerant identification in fire debris by gas chromatography/mass spectrometry techniques. *Journal of Forensic Sciences* 29, no. 3 (1984): 714-722.
- Kennedy, P.E. The Stouffer's case: Why the decision was reversed. *Firehouse* 7, no. 8 (1982): 15-16.
- Kennedy, R.L. Arson motive investigation. *National Fire and Arson Report* 8, no. 2 (1990): 1+.
- Kennedy, R.L. Cause and origin experts. *National Fire and Arson Report* 5, no. 1 (1987): 1+.
- Kennedy, R.L. Experts: what makes the difference? *National Fire and Arson Report* 9, no. 3 (1991): 1+.
- Kennedy, R.L. Incendiary fire motive investigation. *National Fire and Arson Report* 11, no. 11 (1986): 1-3+.
- Kerr, J.W. Incendiarism. An overview and an appraisal. *International Fire Chief* 42, no. 4 (1976): 6-9.
- Keyworth, R.J. Arson detection is your responsibility, too. *Fire Command* 43, no. 9 (1976): 28.
- Kightlinger, S.M., M.J. Pavilsin, E.H. Williams. Understanding and effectively utilizing the arson reporting immunity laws. *Fire and Arson Investigator* 42, no. 2 (1991): 23-31.
- King, C.G. D.O.A. at the fire scene. *Fire and Arson Investigator* 37, no. 3 (1987): 29+.
- King, C.G. Ethics and arson investigation. *Fire Engineering* 138, no. 1 (1985): 36-38.
- King, C.G. Flammable incendiary liquid: Booze. *Fire Engineering* 138, no. 9 (1985): 25-26+.
- King, G.T. It's easy to write reports. *National Fire and Arson Report* 5, no. 4 (1987): 6.
- King, S. Manufacturer's defect or murder?, *Fire Engineering* 4, no. 1 (1986): 3 1-32.

- Kingston, K.A. Look but don't touch: The plain view doctrine. *Fire and Arson Investigator* 38, no. 4 (1988): 32-37.
- Kiser, J. Let's win at all costs. *Fire and Arson Investigator* 39, no. 4 (1989): 55-56.
- Klatzow, D.J. Fire investigation in South Africa. *Fire Protection* 13, no. 4 (1986): 3-7.
- Klein, L., N. Klein. Incendiary blaze heavily damages Kansas firehouse. *Firehouse* 10, no. 4 (1985): 34+.
- Klem, T.J. Ninety seven die in arson fire at Dupont Plaza Hotel. *Fire Journal* 81, no. 3 (1987): 74-77+.
- Klosterman, J.P. Simplified technique for charcoal absorption/elution of arson samples. *Arson Analysis Newsletter* 7, no. 2 (1983): 44-47.
- Knapp, E.S. As fire deaths, losses mount. States join brigade to fight arson. *State Government News* 23, no. 3 (1980): 3-5.
- Knapp, E.S. Bad times turn worse with arson. *State Government News* (1982): 10-11.
- Knowles, R.G. Numbers game hard to play for arson control specialists. *National Underwriter Property and Casualty, Risk and Benefits Management* no. 48 (1991): 2.
- Knowlton, M.E., R.P. Rogozinski. Arson investigators: The new breed. *Fire Engineering* 143, no. 6 (1990): 46-48+.
- Knox, M.R. Defense lawyer's approach to coordinated arson investigation. *Fire and Arson Investigator* 33, no. 3 (1983): 20-26.
- Koch, L. Integrity. *Fire and Arson Investigator* 37, no. 3 (1987): 51.
- Kolata, G. Fire: New ways to prevent it. *Fire and Arson Investigator* 38, no. 1 (1987): 42-43.
- Koleas, G. Role of the fire fighter in gathering evidence of arson. *Fire and Arson Investigator* 28, no. 2 (1977): 42-45.
- Koles, M.R., W.R. Jenson. comprehensive treatment of chronic fire setting in a severely disordered boy. *Journal of Behavioral Therapy* 16, no. 1 (1985): 81-85.
- Kolko, D.J. Juvenile firesetting: A review and methodological critique. *Clinical Psychology Review* 5 (1985): 345-376.
- Kolko, D.J., et al. Aggression and psychopathology in childhood firesetters: Parent and child reports. *Journal of Consulting and Clinical Psychology* 53, no. 3 (1985): 377-385.
- Kolko, D.J., et al. Fire safety/prevention skills training to reduce involvement with fire in young psychiatric inpatient. *Behavioral Therapy* 22, no. 2 (1991): 269-284.
- Kolko, D.J., A.E. Kazdin. Conceptualization of firesetting in children and adolescents. *Journal of Abnormal Child Psychology* 14, no. 1 (1986): 49-61.
- Kolko, D.J., A.E. Kazdin. Parent psychoapthology and family functioning among childhood firesetters. *Journal of Abnormal Child Psychology* 14, no. 2 (1986): 315-329.
- Kolko, D.J., A.E. Kazdin. Parent-child correspondence in identification of firesetting among child psychiatric patients. *Journal of Child Psychology ad Psychiatry and Allied Disciplines* 29, no. 2 (1988): 175-184.
- Kolko, D.J., A.E. Kazdin. Prevalence of firesetting and related behavior among child psychiatric patients. *Journal of Consluting and Clinical Psychology* 56, no. 4 (1988): 628-630.
- Kolko, D.J., A.E. Kazdin. Aggression and psychopathology in matchplaying and firesetting children: A replication and extension. *Journal of Clinical Child Psychology* 20, no. 2 (1991): 191-201.
- Kolstad, C.K. Microwaves stop school vandals. *Security World* 11, no. 2 (1974): 20+.
- Kosky, R., S. Silburn. Children who light fires: A comparison between firesetters and non-firesetters. *Australian and New Zealand Journal of Psychiatry* 18, no. 3 (1984): 251-255.
- Koster, J. Arson, 1863. Civil war madness in Lawrence, Kansas. *Firehouse* 5, no. 11 (1980): 71-74+.
- Kragh, R.W. Study of extension cords. *Fire and Arson Investigator* 139, no. 1 (1986): 37.
- Krajick, K. Arson epidemic. Who should investigate. *Police Magazine* 2, no. 4 (1979): 4-16.
- Kraske, R. Incendiary wildfires: Minnesota gets tough on arsonists. *Minnesota Fire Chief* 21, no. 3 (1985): 14-15+.
- Kraske, R. Incendiary wildfires: Minnesota gets tough on arsonists. *Fire Management Notes* 46, no. 1 (1985): 16-18.
- Krogman, J.G. How the feds fight arson. *Firehouse* 4, no. 8 (1979): 49+.
- Kruh, N. Burnin' for attention: Children who set fires likely smoldering inside. *Fire and Arson Investigator* 40, no. 2 (1989): 19-20.
- Krzeszowski, F.E. Matching wits with the arsonist. *Security Management* 33, no. 7 (1989): 26.
- Ku, E. BOMA international fire survey. Commerical buildings uphold fire safety record, 1989. *Skylines* (1989): 14-15.
- Kurz, M. States of matter, effect of heat, *National Fire and Arson Report* 5, no. 3 (1987): 1+.
- Kurz, M. Understanding flammable liquid properties. *National Fire and Arson Report* 5, no. 6 (1987): 1+.

Kurz, M.E. Combustible materials: Role of pyrolysis. *National Fire and Arson Report* 8, no. 2 (1990): 10-12.

Kurz, M.E. Composition of matter. *National Fire and Arson Report* 3, no. 5 (1985): 1-4.

Kurz, M.E. Petroleum. *National Fire and Arson Report* 37, no. 1 (1986): 10+.

Kurz, M.E. Petroleum products. *National Fire and Arson Report* 4, no. 1 (1986): 1+.

Kyte, G. Rooming house fire claims five lives. Fire investigation report. *Fire Command* 53, no. 12 (1986): 18-21.

L'Hote, J.D. Detroit fights theft and arson. *Amer Sch Univ* 42, no. 11 (1970): 19-21.

Lane, C.M. Ultra-violet light: Gem or junk. *Fire and Arson Investigator* (1975): 40-42.

Lane, M. Arson: A part one crime. *Law and Order* 27, no. 11 (1979): 14, 16-19.

Largent, K.G. It's all done with mirrors. *Arizona Arson Investigator* 2, no. 1 (1990): 28-29.

Larson, R.R. Arson for profit - who pays. *Fire and Arson Investigator* 28, no. 2 (1977): 18-24.

Last, C.G., et al. Physiological and cognitive assessment of a fire-setting child. *Behavior Modification* 9, no. 1 (1985): 94-102.

Lathrop, J.K. Discotheque fire, twenty-four dead. *Fire Journal* 68, no. 6 (1974): 5-8+.

Lathrop, J.K. Five die in fraternity house fire, Baldwin City, Kansas, August 29, 1976. *Fire Journal* 71, no. 3 (1977): 21-22.

Lathrop, J.K. Large-loss school fire, Westport, Connecticut. *Fire Journal* 68, no. 6 (1974): 50-54.

Lathrop, J.K. Nursing home fires causes two deaths. *Fire Journal* 72, no. 2 (1978): 62-65.

Lavoie, K.R. Dog puts bite on arsonist. *Fire Service Today* 49, no. 5 (1982): 33.

Law Enforcement Assistance Administration. Proposed change to guide for discretionary grant programs, M4500.1G, for fiscal year 1979. *Federal Register* 44, no. 116 (1979): 34213-34215.

Law, D.K. Pyromanic vs. the professional hired torch. *Fire Engineering* 144, no. 1 (1991): 50-51.

Leahy, J. Female investigator with nose for trouble. *Voice* 20, no. 7 (1991): 25.

Lee, H.C., C. Appel. Anti-arson program in Connecticut. *Arson Analysis Newsletter* 7, no. 11 (1983): 17-22.

Lee, R.J. Bomb and arson threats in hospitals. *Hospital Progress* 53, no. 11 (1971): 12- 17.

Lee-Simms, B. Where there's fire, there could be the occult. *Fire and Arson Investigator* 41, no. 3 (1991): 38-39.

Lentini, J. ASTM adopts fire debris analysis standards. *Fire and Arson Investigator* 41, no. 3 (1991): 16.

Lentini, J. Avoiding contamination. *Fire and Arson Investigator* 36, no. 1 (1985): 26-29+.

Lentini, J.J. Control samples, a reply. *Fire and Arson Investigator* 39, no. 4 (1989): 39-40.

Lentini, J.J. Examination of televisions in arson fraud investigations. *Fire and Arson Investigator* 33, no.4 (1983): 15-22.

Lentini, J.J. Vapor pressures, flash points and the case against kerosene heaters. *Fire and Arson Investigator* 40, no. 3 (1990): 16-18.

Lentini, J.J., L.V. Waters. Isolation of accelerant-like residues from roof shingles using headspace concentration. *Arson Analysis Newsletter* 6, no. 3 (1982): 48-55.

Lentini, J.J., L.V. Waters. The behavior of flammable and combustible liquids. *Fire and Arson Investigator* 42, no. 1 (1991): 39-45.

Lentini, J.J., R.I. Underwood. Appliance fires: Determining responsibilities. *Fire and Arson Investigator* 39, no. 4 (1989): 52-53.

Lentini, J.J., Underwood, R.I. Appliance fires: Determining responsibility. *National Fire and Arson Report* 7, no. 2 (1989): 1+.

Leo, J.H. Mounting insurance fraud claims devastate insurers. *California Fire Arson Investigator* 1, no. 4 (1991): 14-15.

Lescault, J. Fire and arson prevention programs: Survival during fiscal crisis. *International Fire Chief* 4, no. 2 (1986): 12-16.

Levin, B.C. Analysis of carboxyhemoglobin and cyanide in blood from victims of the DuPont Plaza Hotel Fire in Puerto Rico. *Journal of Forensic Sciences* 35, no. 1 (1990): 151-168.

Levin, B.M. Arsonists: Who and why. The minds and motives of people who set fires. *Firehouse* 4, no. 8 (1978): 16+.

Lewis, A. Future developments in the battle against arson. *Fire Prevention* no. 216 (1989): 36-40.

Lewis, B.A. \$70,000 'car fire'. *Fire Command* 52, no. 8 (1985): 46.

Lewis, R.W. Kerosene heaters and fire safety. *Fire and Arson Investigator* 36, no. 1 (1985): 4-7.

Lincoln, A.J. Patterns and costs of crime. *Library Trends* 33, no. 1 (1984): 69-76.

Lincoln, S. Charcoal lighter fluid used as an arson accelerant. *Fire and Arson Investigator* 42, no. 1 (1991): 46-47.

Link, F.C. Levels of confidence in polygraph. *National Fire and Arson Report* 52, no. 8 (1986): 13.

Logue, F. Municipal anti-arson strategy: The New Haven model. *Fire and Arson Investigator* 30, no. 4 (1980): 27-38.

Logue, F. Municipal anti-arson strategy: The New Haven model. *Fire Journal* 74, no. 2 (1980): 72-77+.

Long, M. Florida's wildfire challenge. *Wildfire News and Notes* 4, no. 4 (1990): 12.

Longmire, D.R., G.F. Vito, J.P. Kenney. Combatting the crime of arson. Detection, arrest, and conviction. *Journal of Criminal Justice* 11, no. 4 (1983): 359-368.

Loscalzo, P.J., P.R. DeForest, D. Crim, J.M. Chao. Study to determine the limit of detectability of gasoline vapor from simulated arson residues. *Journal of Forensic Sciences* 25, no. 1 (1980): 162-167.

Louderback, J. FDNY's fighting fire marshals. *Firehouse* 15, no. 2 (1990): 50-51.

Louderback, J. New Jersey: Camden Fire Department battles warehouse arson fire twice. *Firehouse* 14, no. 10 (1989): 99- 100+.

Lowe, D. Fire investigation: Science or science fiction. *Fire and Arson Investigator* 38, no. 1 (1987): 51-52.

Lowe, R.E. The private fire investigator: An inside look. *Fire and Arson Investigator* 4 1, no. 3 (1991): 48-51.

Lowe, R-E. The private fire investigator: An inside look. *California Fire Arson Investigator* 1, no. 3 (1990): 8-11.

Ludford, L. Postal fraud statute used to cancel arson scheme. *Fire Engineering* 132, no. 2 (1979): 38-39.

Lund, P. Juvenile arson comes of age. Incendiary crisis: Little kids burn big bucks. *Firehouse* 8, no. 10 (1983): 59-60.

Lyle, H.P. Arson and the polygraph. 1952 revisited. *Polygraph* 9, no. 4 (1980): 272-281.

Lyons, L.J. CPCU seminar. Insurers should set up own arson control units. National Underwriter. *Property and Casualty Insurance Edition* (1981): 30.

Lyons, L.J. Smoking out the arson defrauder. *National Underwriter Property and Casualty, Risk and Benefits Management* (1982): 3.

Lyons, P.R. Our heritage of fire in America. *Minnesota Fire Chief* 13, no. 2 (1976): 12-13+.

Mach, M.H. Gas chromatography. Mass spectrometry of simulated arson residue using gasoline as an accelerant. *Journal of Forensic Sciences* 22, no. 2 (1977): 348-357.

Macht, L.B., J.E. Mack. The firesetter syndrome. *Psychiatry* 31, no. 3 (1968): 277-288.

MacMillan, R.J. Wholesale Xmas arson. *American Fire Journal* 43, no. 3 (1991): 14-16.

Magnan, L.D. Financial motive in incendiary fires and fraud: Part 1 - the importance of market and industry. *National Fire and Arson Report* 6, no. 4 (1988): 8-9+.

Maguire, H.M. A progressive, innovative, and successful program to reduce arson. *Fire Command* 43, no. 11 (1976): 25-27.

Maguire, H.M. Eight-agency effort fights arson. *Fire Command* 42, no. 9 (1975): 16-18.

Maguire, H.M. Joint effort fights arson. *Fire Chief* 20, no. 6 (1976): 44-45.

Maguire, H.M. Seattle lights fire under arsonists with multimedia plea for citizen help. *Fire Engineering* 130, no. 9 (1977): 26-28.

Malcolm, J.D. Documenting the electrical system. *Fire and Arson Investigator* 36, no. 1 (1985): 31-36.

Malcolm, J.D. Documenting the electrical system. *Fire and Arson Investigator* 36, no. 12 (1985): 12-21.

Malcolm, J.D. Using a portion of the electrical system as an investigative tool. *Fire and Arson Investigator* 3, no. 6 (1986): 27.

Mallin, T.W. Arson reporting immunity laws: A closer look. *National Fire and Arson Report* 3, no. 5 (1985): 5+.

Maloney, C.P. 15 years to life. *WNYF* 49, no. 3 (1988): 2-9.

Maloney, C.P. Arson and the fire fighter. *International Association of Fire Chiefs* 44, no. 9 (1978): 9-13.

Manning, H. Problem of school arsonists. *Australian Nurses Journal* 7, no. 6 (1978): 9-10+.

Maquire, H.M. "Marshal 5" Seatties elite arson unit. *Firehouse* 2, no. 10 (1977): .

Marchone, M.K., A.B. O'Donnell. Harnessing juvenile firesetters. *Fire Chief* 31, no. 3 (1987): 49-50.

Marden, W. A reasonable doubt. *Firehouse* 16, no. 8 (1991): 34-35.

Marks, J. FAIR plans: A '60s remedy becomes an '80s resource. *Journal of Insurance* (1983): 3.

Marshak, L. Attack on arson. A raging battle. *Municipal Police* (1979): 3-6.

Martin, B. Fireplaces. *Arizona Arson Investigator* 2, no. 1 (1990): 14-16.

Martin, B.M., M.A. McKenzie, J. McPhail. Arson/fraud claims. *National Fire and Arson Report* 3, no. 4 (1985): 1-6+.

Martin, W.M. Arsonist is paying for crime. Billed for fire fighting. *Fire Engineering* 132, no. 10 (1979): 33-34.

Mason, J.D. New twist to an old motive. *Fire and Arson Investigator* 36, no. 3 (1986): 26.

Massarotti, A. Check that scene. *Fire and Arson Investigator* 37, no. 3 (1987): 21.

Mathie, J.P. Rehabilitation and one type of arsonist. *Fire and Arson Investigator* 28, no. 2 (1977): 54-56.

Mavromatis, M., J.R. Lion. Primer on pyromania. Brief communications. *Diseases of the Nervous System* 38, no. 11 (1977): 954-955.

May, R.E. Arson. The most neglected crime on earth. *Police Chief* 41, no. 7 (1974): 32-33.

May, R.S. Arson. The neglected crime. *Minnesota Fire Chief* 2, no. 5 (1975): 10-11+.

- May, W.A. Collecting and handling evidence at the fire scene: an overview. *Fire Engineering* 151, no. 8 (1988): 10-11.
- May, W.A. More with less: Twelve steps to building an arson prevention program when the funding's tight. *Fire and Arson Investigator* 42, no. 2 (1991): 6-8.
- May, W.A. More with less: Twelve steps to building an arson prevention program when the funding's tight. *Fire Engineering* 141, no. 6 (1988): 62-64+.
- May, W.A., B.R. McDonald. Arson investigation: It belongs in the fire department. *Fire Chief* 32, no. 11 (1988): 56-59.
- Mazerat, J.L., P.C. McGuire. Arson. *Police Chief* 49, no. 1 (1982): 90-95.
- McErlean, R.J. Financial motive in incendiary fires and fraud: Part II - analysis of liquidity and other ratios. *National Fire and Arson Report* 6, no. 5 (1988): 8-9+.
- McGann, R.C. DAS are urged to become involved in early stage of fire investigations. *Fire Engineering* 131, no. 8 (1978): 66-67+.
- McGarry, F.A. New York state gears up to fight arson. *FBI Law Enforcement Bulletin* 50, no. 10 (1981): 19-23.
- McGehan, F. Who is an arsonist. *Security World* 14, no. 3 (1977): 13.
- McGehan, F.P. Profile of a firebug. *Dimensions* 60, no. 7 (1976): 12-13.
- McGuinness, P. Mounting an arson offensive. *Firehouse* 9, no. 8 (1984): 44-45.
- McGuire, P.C. Quick, coordinated response to major arson incidents. The "A" team. *Firehouse* 9, no. 8 (1984): 55-56.
- McIntee, J.S. Task force shows success in court can cut arson rate. *Fire Engineering* 130, no. 9 (1977): 63-65.
- McKenzie, M.A., M.M. Witten. Cooperation without conspiracy. *National Fire and Arson Report* 6, no. 2 (1988): 1+.
- McKenzie, M.A., M.M. Witten. Cooperation without conspiracy. *National Fire and Arson Report* 6, no. 4 (1988): 6+.
- McKenzie, M.A., M.M. Witten. Cooperation without conspiracy: (scenario continued from vol. 6, no.2). *National Fire and Arson Report* 6, no. 3 (1988): 5-6+.
- McKinney, C.D., E.A. Corral: Classifying juvenile arsonists. *Fire Command* 52, no. 10 (1985): 32-33.
- McNally, V.P., Jr. Arson fight hinges on 5 key areas. *Fire Engineering* 132, no. 11 (1979): 72-73.
- McNamara, D.F. Michigan: Arson strikes Detroit senior citizens' home, leaving four dead and 19 injured. *Firehouse* 16, no. 2 (1991): 60-62.
- McPahil, J.B. Connecting evidence... arson, she wrote: part III/connecting evidence a-z (conclusion). *National Fire and Arson Report* 8, no. 3 (1990): 6+.
- McPahil, J.B. Connecting evidence... arson, she wrote; part II/categories. *National Fire and Arson Report* 8, no. 2 (1990): 4-5+.
- McPhail, J.B. Connecting evidence... arson, she wrote. *National Fire and Arson Report* 8, no. 1 (1990): 1+.
- Meadows, M. Los Angeles arson fire destroys landmark. *Firehouse* 15, no. 2 (1990): 48-49.
- Meal, L. Alternative to gas chromatography in the analysis of fire debris. *Fire and Arson Investigator* 39, no. 1 (1988): 55-56.
- Mecir, J. Mentally disturbed juvenile arsonists. *Ceskoslovenska Psychiatrie* 70, no. 3 (1974): 158-166.
- Meehan, J.J., P.D. Fry. Task force approach to fire investigations. *Fire and Arson Investigator* 37, no. 3 (1987): 46+.
- Mees, R. Arsonist do not set more fires during severe fire weather in Southern California. *Fire Management Notes* 51, no. 3 (1990): 9-11.
- Mees, R. Is arson associated with severe fire weather in Southern California? *International Journal of Wildland Fire* 1, no. 2 (1991): 97-100.
- Mercillott, F. Fatal fire investigation: Homicide. *Fire and Arson Investigator* 37, no. 3 (1987): 39-42.
- Mercillott, F. Juvenile fire setters. *Fire and Arson Investigator* 24, no. 2 (1983): 3-12.
- Merritt, R. Preparing arson photos for court use. *Fire Chief* 19, no. 6 (1975): 36-37.
- Methvin, E.H. The case of common sense vs. Miranda. *Reader's Digest* (1987): 96-100.
- Metrocavage, P.D. A lousy way to die. For eight guests and the hotel owner, checkout time was too late. *Firehouse* 2, no. 3 (1977): 72-74.
- Meurer, W. Strategy for protection against arson in West Germany. *Fire Prevention* no. 193 (1986): 18-21.
- Meyer, E. Evaluating arson-caused forest fires in Wisconsin, 1982-85. *Fire Management Notes* 47, no. 3 (1986): 22-25.

- Meyer, E. Some observations concerning four years of arson caused forest fires in Wisconsin. *Fire and Arson Investigator* 37, no. 1 (1986): 41-44.
- Meyers, L. When is arson murder. *Firehouse* 12, no. 5 (1987): 27+.
- Meyers, R.E. Evaluation of three commonly used hydrocarbon detectors. *Fire and Arson Investigator* 32, no. 4 (1982): 15-18.
- Microfilm Publishing Inc. Arson. How to defend against the most destructive school crime. *School Security* 1, no. 4 (1976): 1-8.
- Midkiff, CR. Applications of polar liquid phases to the gas chromatographic examination of arson evidence. *Arson Analysis Newsletter* 3, no. 6 (1980): 1-22.
- Midkiff, C.R. Separation and concentration of flammable liquids in arson evidence. *Arson Analysis Newsletter* 2, no. 6 (1978): 8-12.
- Midkiff, CR. Spalling of concrete as an indicator of arson: Lets's look at the concrete before we decide. *Fire and Arson Investigator* 41, no. 2 (1990): 42-44.
- Midkiff, CR., W.D. Washington. Gas chromatographic determination of traces of accelerants in physical evidence. *Journal of the AOAC* 55, no. 4 (1975): 840-845.
- Mieszala, P. Arson. Motivation and efforts toward resolution. *Fire and Arson Investigator* 33, no. 1 (1983): 35-30.
- Mifsud, L. Scientific education of fire origin-and-cause investigators. *Fire and Arson Investigator* 36, no. 1 (1985): 22-25.
- Miller, D. Citizen involvement is key to success of Dallas campaign against arson. *Fire Engineering* 132, no. 9 (1979): 24-26.
- Milliken, J. Up in smoke. *Law Enforcement Communications* 6, no. 1 (1979): 12-15.
- Mills, A.F. Trajectories of sparks from arcing aluminum power cables. *Fire and Arson Investigator* 37, no. 3 (1987):56-57.
- Minnesota Fire Chief. Arson. *Minnesota Fire Chief* 13, no. 1 (1976): 18+.
- Minnesota Fire Chief, Incendiarism in industry. *Minnesota Fire Chief* 11, no. 6 (1975): 8-9+.
- Minnich, T.E. Rural arson. Overview of USFA projects. *International Fire Chief* 5 1, no. 1 (1985): 11-19.
- Minnich, T.E. Use of videotape in fire and arson investigation. *Fire and Arson Investigator* 33, no. 3 (1983): 6-9.
- Mall, K. Arson psychology and public policy. *Fireline* (1976): 3-5.
- Molloy, G.F. Determination of the point of origin. A method. *Fire and Arson Investigator* 30, no. 4 (1980): 42-46.
- Molnar, G., L. Keitner, B.T. Harwood. Comparison of partner and solo arsonists. *Journal of Forensic Sciences* 29, no. 2 (1984): 574-583.
- Monaco, C. Kid power: A proposed new program to cool juvenile firesetting. *New Mexico Fire Arson Investigator* 1, no. 4 (1991): 10-11.
- Monaco, C. Who is the juvenile firesetter. *New Mexico Fire Arson Investigator* 1, no. 3 (1990): 30-31.
- Monson, K.L., W.A. Tobin. Collapsed spring observations in arson investigations: A critical metallurgical evaluation. *Fire Technology* 25, no. 4 (1989): 317-335.
- Moore, G. The growing problem of road vehicle fires. *Fire Prevention* no. 222 (1989): 29-31.
- Moore, P. Ohio. Nine die in Holiday Inn fire. *Firehouse* 4, no. 11 (1979): 31,+.
- Moretz, W.J., Jr. Psychology's understanding of arson. What do we know, and what do we need to know. *Fire and Arson Investigator* 28, no. 1 (1977): 45-52.
- Moriarty, T. Is it arson or is it vandalism? *Fire and Arson Investigator* 35, no. 3 (1985): 31-32.
- Morris, D.M. Fires from gas and electric appliances. *Fire and Arson Investigator* 25, no. 5 (1975): 1-3.
- Morris, J. Protecting the library from fire. A U.S. viewpoint with lessons for other countries. *Fire Prevention* no. 192 (1986): 26-30.
- Mostrom, K. A study of children who set fires. *Fire and Arson Investigator* 39, no. 4 (1989): 47-50.
- Mullen, J.C. Jr. The team approach in combating arson fraud. *National Underwriter Property and Casualty Insurance Edition* (1981): 18.
- Mullins, R.D. State program will target arson. *Fire and Arson Investigator* 36, no. 1 (1985): 17-18.
- Munch, C.J. Prosecuting arson in Denver. *Firehouse* 4, no. 8 (1979): 48-49+.
- Munger, J.G. Red flag syndrome. *Fire and Arson Investigator* 37, no. 4 (1987): 50.
- Munsey, G. Thanksgiving to remember. *American Fire Journal* 29, no. 3 (1987): 28-30+.
- Murphy, A.W.; A. Maueual. Arson fraud: Criminal prosecution and insurance law. *Fordham Urban Law Journal* 7, no. 3 (1978-1979): 541-615.
- Murray, J. New weapon against arson. *Fire Command* 52, no. 10 (1985): 22-23+.
- Murrey, J.H. Relationship between selected socioeconomic variables and measures of arson: A cross-sectional study. *Fire Technology* 23, no. 1 (1987): 60-73.

- Murry, L.S., M. Ward. Virginia's prison rampage: Inmates torch the Lorton Reformatory. *Firehouse* 11, no. 10 (1986): 58-59+.
- Myers, K. FMI program addresses European arson problem. *Record* 68, no. 3 (1991): 18-19.
- Myers, K. Outsmarting the arsonists. *Fire Prevention* no. 242 (1991): 17-18+.
- Myers, L. Testimony of horror. *Firehouse* 12, no. 5 (1987): 29.
- Myers, L. When is arson murder. *Firehouse* 12, no. 5 (1987): 27+.
- Nakata, O. Criminological study of serial arson. *Acta Criminologiae Et Medicinae Legalis Japonica* 42, no. 3 (1976): 102-113.
- Nakata, O. Eijiro Yoshida as a pioneer who made a study on arson in Japan. *Acta Criminologiae Et Medicinae Legalis Japonica* 41, no. 3 (1975): 46-47.
- Nastro, F.J. Happyland. Lessons of the mind and the heart. *Fire Engineering* 13, no. 9 (1990): 24-26+.
- National Bureau of Standards. Burning of solid fuels, *Fire and Arson Investigator* 37, no. 2 (1986): 40-41.
- National Fire Protection Association. 21 die in Saint John, New Brunswick, jail fire. *Fire Journal* 72, no. 2 (1978): 34-37.
- National Fire Protection Association. Shelton affair. The hidden costs of arson. *Fire Journal* 70, no. 2 (1976): 22-24.
- National Trust for Historic Preservation. Stop arson. *Conserve Neighborhoods* no. 22 (1982).
- National Underwriter Property and Casualty, Risk and Benefits Management. ICAC to sponsor arson probe seminar, *National Underwriter. Property and Casualty, Risk and Benefits Management* no. 50 (1991): 9.
- Neubacher, J. Two Detroit reporters worked round-the-clock to expose a costly conspiracy. *Firehouse* 1 (1976): 34-37.
- New Jersey Division of Criminal Justice. Development of a New Jersey strategy for arson control. The report of the Attorney General's Arson Task Force. *Criminal Justice Quarterly* 7, no. 3 (1980).
- Nickell, J., J.F. Fischer. Incredible cremations: Investigating spontaneous combustion deaths. *Skeptical Inquirer* 11, no. 4 (1987): 352-357.
- Nistler, M. Volunteers lost in arson fire. *Minnesota Fire Chief* 21, no. 4 (1985): 27.
- Nolan, J. Teams probe NY arson blazes. *Journal of Commerce and Commercial* 364 (1985): 1A.
- Norman, M. Murder of John Nance. *Building Official and Code Administrator* 22, no. 1 (1988): 22-29.
- Nowicki, J. An accelerant classification scheme based on analysis by gas chromatography/mass spectrometry. *Journal of Forensic Sciences* 35, no. 5 (1990): 1064-1088.
- Nowicki, J.F. Control samples in arson analysis. *Arson Analysis Newsletter* 5, no. 1 (1981): 1-5.
- Nurcombe, B. Children who set fires. *Medical Journal of Australia* 1, no. 16 (1964): 579-584.
- Nurcombe, B. Children who set fires. *Medical Journal of Australia* 1, no. 16 (1964): 579-584.
- O'Brien, M.R. Arson: A spreading cancer. *Australian Police Journal* 35,3 (1981): 164-174.
- O'Connor, D.G., W.M. Parker, J.V. Phillips, J.S. Paulsen, D.S. Reichard, L.L. Richardson. Fire/arson investigation research paper, February 22-March 2, 1982. Identifying revenge fires. *Fire and Arson Investigator* 35, no. 2 (1984): 9-14.
- O'Connor, D.G. Identifying revenge fires. *Fire Engineering* 139, no. 3 (1986): 54+.
- O'Connor, D.G., W.M. Parker Jr., J.V. Phillips, J.S. Paulsen, D.S. Reichard, L.L. Richardson. Identifying revenge fires. *Fire and Arson Investigator* 36, no. 4 (1986): 45-48.
- O'Connor, D.G., W.M. Parker, J.V. Phillips, J.S. Paulsen, D.S. Reichard, L.L. Richardson. Burning with resentment: Identifying the revenge arsonist. *American Fire Journal* 37, no. 3 (1985): 18-22+.
- O'Donnell, J. About those sniffers. *National Fire and Arson Report* 3, no. 1 (1985): 11.
- O'Donnell, J. Sampling of burned areas for accelerant residue analysis. *Fire and Arson Investigator* 35, no. 4 (1985): 18-20.
- O'Donnell, J.F. Accelerant residue analysis by a combined solvent extraction-heated headspace technique. *Fire and Arson Investigator* 41, no. 1 (1990): 4-6.
- O'Donnell, J.F. Interferences from backgrounds in accelerant residue analysis. *Fire and Arson Investigator* 39, no. 4 (1989): 24-27.
- O'Donnell, J.F. Trouble with arson investigation. *Fire and Arson Investigator* 24, no. 2 (1983): 15-16.
- O'Farrell, C., D.E. Williams. Preplan for collapse: Once-successful ballroom bows to arson, *Firehouse*, 13, no. 6 (1988): 83+.
- O'Neal, W.G. Interrogation. A guide for investigators. *Fire and Arson Investigator* 28, no. 2 (1977): 25-35.
- Oleksy, W. Chicago Police put the bum on arson. *Police Product News* 5, no. 7 (1981): 48-53+.
- Olivari, J.S. Arson: America's deadly crime, *Volunteers' Dispatch* 10, no. 3 (1987): 7.
- Onieal, D.G. Arson: A sign of the times. *Firehouse* 16, no. 7 (1991): 66+.
- Ornberg, R.C. Arson investigation in Illinois. *Firehouse* 4, no. 8 (1979): 43-44.

- Orr, J. Classes for cash: Arson unit finds alternative to traditional fundraising. *American Fire Journal* 39, no. 6 (1987): 24-26.
- Orr, J. Interviewing the reluctant witness. *American Fire Journal* 29, no. 4 (1987): 34-35.
- Orr, J. Profiles in arson: The revenge firesetter. *American Fire Journal* 41, no. 5 (1989): 30-32+.
- Orr, J. Profiles in arson: The serial firesetter. *American Fire Journal* 41, no. 1 (1989): 24-27+.
- Orr, J.L. Profiles in arson. The vanity firesetter. *American Fire Journal* 41, no. 7 (1989): 24-27.
- Panneton, J. Federalizing fires. The evolving federal response to arson related crimes. *American Criminal Law Review* 23, no. 2 (1985): 151-206.
- Parris, G.E. Assessing the risks of toxic fumes produced during fires. *Fire and Arson Investigator* 40, no. 3 (1990): 26-27.
- Parry, J. Incendiarism and how to stop it.. *Canadian Business Magazine* 50, no. 5 (1977): 64-67.
- Parry, J. Incendiarism and how to stop it. *Canadian Business* 50, no. 6 (1977): 64-67.
- Parsons, D.R. Fatal fire activities arson control network in L.A. City. *American Fire Journal* 37, no. 4 (1985): 34-35+.
- Patterson, W.M. Origin and cause: How are we doing? *Fire and Arson Investigator* 37, no. 2 (1986): 34.
- Patterson, W.M. When the smoke clears. *Fire and Arson Investigator* 37, no. 3 (1987): 55.
- Patton, M. Flashlight provides lighting for arson photography. *Fire Chief Magazine* 26, no. 6 (1982): 4244.
- Patton, M.S., J.M. Murphy. Arson photography provides accurate evidence. *Fire Chief Magazine* 23, no. 10 (1979): 50-53.
- Pautty, R. Arson in France. *Fire Prevention* no. 190 (1986): 28-29.
- Pearman, B. Training video takes aim at arsonists. *California Fire Arson Investigator* 1, no. 3 (1990): 12-13.
- Peer, I.N. Comments on arson. *Journal of Forensic Sciences* 24, no. 4 (1979): 885-889.
- Percy, C.H. Government v. arson for profit. *Firehouse* 4, no. 8 (1978): 34-35+.
- Perry, D.G. Scene preservation at the wildland fire: The company officer's role. *American Fire Journal* 38, no. 5 (1986): 18-19+.
- Perry, W.J. Industry response to arson. The property insurance loss register. *Fire and Arson Investigator* 29, no. 4 (1979): 20-24.
- Persley, G.V., S.P. Pegg. Burn injuries related to suicide. *Medical Journal of Australia* (1981): 134-135.
- Petersen, J.L. Constitutional plight. *Firehouse* 5, no. 8 (1980): 41-42.
- Pettitway, L.E. Arson for revenge. The role of environmental situation, age, sex, and race. *Journal of Quantitative Criminology* 3, no. 2 (1987): 169-184.
- Pettitway, L.E. Measures of opportunity and the calculation of the arson rate. The connection. *Journal of Quantitative Criminology* 1, no. 3 (1985): 241-268.
- Pevtoe, R. Flammable liquid detection in arson. *Minnesota Fire Chief* 26, no. 1 (1989): 7.
- Phelps, J. Rules of evidence. *Fire and Arson Investigator* 34, no. 3 (1984): 26-33.
- Phillips, S.A. How wood chars and what it means to the fire investigator. *California Fire Arson Investigator* 1, no. 4 (1991): 9-11.
- Phillips, S.A. How wood chars and what it means to the fire investigator. *Fire and Arson Investigator* 38, no. 4 (1988): 28-30.
- Pilch, R.R. Dealing with litigation: Advice for the witness. *Fire and Arson Investigator* 35, no. 3 (1985): 6-9.
- Pinizzotto, A.J. Forensic psychology: Criminal personality profiling. *Journal of Police Science and Administration* 12, no. 1 (1984): 32-40.
- Pinnick, R.W. Preservation of physical evidence in fire cases. *Fire and Arson Investigator* 25, no. 3 (1975): 55-57.
- Pinsonneault, I.; E.V. Silk. Massachusetts juvenile firesetters intervention program. *Fire and Arson Investigator* 37, no. 2 (1986): 29+.
- Pirnie, A. Suspected arson for profit: The adjuster's role defined. *Fire and Arson Investigator* 25, no. 4 (1975): 36-38.
- Pisani, A.L. Identifying arson motives. *Fire and Arson Investigator* 32, no. 4 (1982): 18-25.
- Pittman, J.O. Fireworks: Dazzling and dangerous. *New Mexico Fire Arson Investigator* 1, no. 3 (1990): 11.
- Plater, D. Suspicion on foolproof fingerprints. *Fire and Arson Investigator* 36, no. 1 (1985): 29-30.
- Police Federation. Arson: Who are the fire raisers. *Police* 11, no. 7 (1979): 43-46.
- Pollack, R.C. Aftermath of an arson fire. A town fights its way back. *Fire Journal* 72, no. 2 (1978): 51-55.
- Posey, E.P., J.E. Posey. Outline for fire scene documentation. *Fire and Arson Investigator* 38, no. 3 (1988): 55-58.
- Pothier, J. Arson charged in school fire. *Fire Command* 53, no. 9 (1986): 42-43+.
- Potts, B.C. Arson: Insurance fraud is a prime motive. *Fire and Arson Investigator* 30, no. 4 (1980): 47-54.
- Potts, B.C. Fraud fires. *Fire Chief* 25, no. 1 (1981): 67-68+.
- Potts, B.C. Fraud fires. Arson-for-profit. *Fire and Arson Investigator* 33, no. 4 (1983): 5-8.

Potts, B.D. Arson. How accurate are the declining numbers. *Fire Chief* 30, no. 12 (1986): 36-39.

Potts, B.D. Arson: How accurate are the declining numbers. *Fire and Arson Investigator* 37, no. 3 (1987): 49-51.

Price, T.A. Appliances as a fire cause. *Fire and Arson Investigator* 39, no. 3 (1989): 30-34.

Prins, H.A. Their candles are all out (Macbeth) or are they? Some reflections on arson and arsonists, *Royal Society of Health Journal* 98, no. 4 (1978): 191-195.

Prosecuting Attorneys Association of Michigan. How to be an effective witness. *California Fire Arson Investigator* 2, no. 1 (1991): 25-26.

Puckett, M. Negligent arson: Youths and fireworks. *New Mexico Fire Arson Investigator* 1, no. 3 (1990): 9.

Quinton, J. Death in New Jersey. Arson hits the garden state. *Firehouse* 4, no. 3 (1979): 35+.

Radecke, R. Vehicle arson methods. *National Fire and Arson Report* 7, no. 5 (1989): 8-9.

Rahilly, R. Are we helping the arsonist? *Firehouse* 15, no. 8 (1990): 7.

Ramsdale, D. Where's the fraud? *Fire and Arson Investigator* 37, no. 1 (1986): 17-18.

Rautabeimo, J. Making of an arsonist. *Fire Prevention* no. 223 (1989): 30-35.

Ray, C. Exploring cooperation in the fire investigation. *New Mexico Fire Arson Investigator* 1, no. 2 (1990): 8-9.

Ray, C. Techniques of testifying. *New Mexico Fire Arson Investigator* 1, no. 4 (1991): 18-19.

Reardon, J.P. New Haven's arson alert training program. *International Fire Chief* 46, no. 5 (1980): 24-26.

Record. Arson Puzzle: Can the pieces be put together. *Record* 55, no. 2 (1978): 3-9.

Record. Arsonists meet their match. *Record* 59, no. 5 (1982): 5-12.

Record. From canines to counseling: Combating arson. *Record* 67, no. 3 (1990): 11-13.

Record. Hazards of yard storage: Common problems and guidelines for protection. *Record* 55, no. 6 (1978): 11-17.

Record. I'll bum it down! *Record* 52, no. 6 (1975): 3-9.

Record. Incendiarism: An FM survey. *Record* 54, no. 4 (1977): 13-15.

Record. Investigating arson: The arson lab can help. *Record* 58, no. 3 (1981): 5-10.

Record. Report on arson: One of the nation's fastest growing crimes. *Record* 58, no. 3 (1979): 3-10.

Record. Treatment for the juvenile firesetter. *Record* 66, no. 4 (1989): 9-14.

Record. What the arson investigator sees. *Record* 54, no. 4 (1977): 3-7.

Rehling, C.J. Legal requirements of preserving and processing evidence in arson and other criminal investigations. *Fire and Arson Investigation* 27, no. 4 (1977): 45-49.

Rice, K.A. Printing the deceased who has been subjected to fire. *Journal of Forensic Identification* 42, no. 1 (1992): 8.

Richardson, J. Use of aircraft in the surveillance of wildland arson suspects. *Fire and Arson Investigator* 37, no. 4 (1987): 49-50.

Rider, A.O. Firesetter. A psychological profile. *Fire and Arson Investigator* 31, no. 2 (1980): 3-20.

Riggs, C.R. Match game arson-for-profit. *Fire and Arson Investigator* 33, no. 2 (1982): 14-18.

Riggs, R.L. Torched from within: A true story of one department's struggle against arson. *Fire and Arson Investigator* 41, no. 3 (1991): 52-57.

Ritvo, E. Firesetting and nonfiresetting delinquents: A comparison. *Child Psychiatry and Human Development* 13, no. 4 (1983): 259-267.

Robbins, E., L. Robbins. Arson. With special reference to pyromania. *New York State Journal of Medicine* 67, no. 6 (1967): 795-798.

Roberts, C.C. Fire resulting from boiler low water cutoff control malfunction. *Fire and Arson Investigator* 37, no. 2 (1986): 33-34.

Roberts, C.D. Challenge of black spots. *Fire and Arson Investigator* 32, no. 3 (1982): 13-18.

Roberts, C.D. Fire investigation and the private investigator. *National Fire and Arson Report* 3, no. 3 (1985): 1-5.

Roberts, C.D. Misconceptions about "V" patterns. *National Fire and Arson Report* 7, no. 2 (1989): 1+.

Roberts, C.D. Misconceptions about fire investigation. *National Fire and Arson Report* 7, no. 3 (n.d.): 1+.

Roberts, C.D. Misconceptions about fire investigation: Part 2-hot spots. *National Fire and Arson Report* 7, no. 4 (1989): 4-5.

Roberts, C.D. Misconceptions about fire investigations: Part 3/fragmentation of investigations. *National Fire and Arson Report* 8, no. 1 (1990): 1+.

Robinson, D.L., T. Doyle. Special unit helps reduce arson. *Fire Command* 46, no. 2 (1979): 18.

Roble, C.L. For fire investigators, *National Fire and Arson Report* 5, no. 1 (1987): 7+.

Roble, C.L. Safety tips for fire investigators. *National Fire and Arson Report* 4, no. 2 (1986): 14.

Rodda, W.H. Underwriting update: Tip-offs to arson. Best's Review. *Property and Casualty Insurance Edition* 82 (1982): 38.

Rodrigue, G. Kid torches. Babes that bum. *Firehouse* 7, no. 8 (1982): 49-50+.

Rogers, M.; J. Gordon. The fire next time; A new view of arson. *Newsweek* (1990).

- Rogozinski, R.P., M.E. Knowlton. Arson investigators: The new breed. *Fire Engineering* 143, no. 6 (1990): 46-48+.
- Romeo, D. The lighter side of fire. *California Fire Arson Investigator* 2, no. 1 (1991): 44-45.
- Rosato, C. Film studio: Hollywood, California. *Fire Prevention* no. 242 (1991): 34.
- Rosato, C. Furniture manufacturer: Preston, Lancashire. *Fire Prevention* no. 242 (1991): 36-37.
- Rosato, C. Furniture shop: Kingwinford, West Midlands. *Fire Prevention* no. 242 (1991): 41.
- Rosato, C. Knitwear manufacturer: Leicester. *Fire Prevention* no. 241 (1991): 41.
- Rosato, C. Library: Aylesbury, Buckinghamshire. *Fire Prevention* no. 241 (1991): 42.
- Rosato, C. Lorry and workshop: Caernarfon, Gwynedd. *Fire Prevention* no. 241 (1991): 40.
- Rosato, C. Military establishment: Warrington, Cheshire. *Fire Prevention* no. 241 (1991): 36.
- Rosato, C. Multiple occupancy: Farnworth, Greater Manchester. *Fire Prevention* no. 242 (1991): 40.
- Rosato, C. Paint-mixing machine factory: Ware, Hertfordshire. *Fire Prevention* no. 245 (1991): 39.
- Rosato, C. Schools: Bradford, West Yorkshire. *Fire Prevention* no. 242 (1991): 39.
- Rosato, C. Schools: Maeroy, Mid Glamorgan. *Fire Prevention* no. 242 (1991): 39.
- Rosato, C. Unoccupied offices: Kettering, Northamptonshire. *Fire Prevention* no. 241 (1991): 41.
- Rose, S.E. Rocket fuel: A new weapon for arsonists? *Fire Chief* 34, no. 12 (1990): 26-27.
- Rosenhan, A.K. Let's be fair: The case for control samples. *Fire and Arson Investigator* 38, no. 4 (1988): 31.
- Rossiter, W.D. Law enforcement officer at the fire scene. *Fire and Arson Investigator* 28, no. 2 (1977): 36-41.
- Rubenstein, S.R. Michigan v. Clifford, et al., 104 S. Ct 641. *Fire and Arson Investigator* 35, no. 4 (1985): 36-37.
- Rudin, E. Arson Sniffers. Dimensions (*U.S. National Bureau of Standards*) 64, no. 10 (1980): 16-17.
- Rutherford, C. Disaster. Planning, preparation, prevention. *Public Libraries* 29, no. 5 (1990): 271-276.
- Ryan, C.T. Auditing for arson. *Fire and Arson Investigator* 31, no. 3 (1981): 61-64.
- Ryan, R.A. Arson triangle. *Forum* 14, no. 2 (1978): 184-191.
- Ryden, B. Arson squad. L.A.'s M.O. *Minnesota Fire Chief* 14, no. 3 (1978): 25+.
- Sadler, W.L. Vandalism in our schools. A study concerning children who destroy property and what to do about it. *Education* 109, no. 4 (1988): 556-560.
- Saferstein, R. Arson analysis. What do you do when your sample is reduced to ashes. *Arson Analysis Newsletter* 62, no. 2 (1982): 41-44.
- Saferstein, R., S.A. Park. Application of dynamic headspace analysis to laboratory and field arson investigations. *Journal of Forensic Sciences* 27, no. 3 (1982): 484-494.
- Sakheim, G.A. A psychological profile of juvenile firesetters in residential treatment. *Child Welfare* 64, no. 5 (1985): 453-476.
- Sakheim, G.A., et al. Toward a clearer differentiation of high-risk and low-risk fire-setters. *Child Welfare* 7, no. 4 (1991): 489-503.
- Sakheim, G.A., E. Osborn. A psychological profile of juvenile firesetters in residential treatment: A replication study. *Child Welfare* 65, no. 5 (1986): 495-503.
- Saly, A.J. Arson hunt. Arson's Part 1 status has caused a classification controversy in Washington, DC, *Firehouse* 5, no. 9 (1980): 93-94.
- Saly, A.J. Sudden death at Stouffer's. *Firehouse* 6, no. 6 (1981): 35-36+.
- Samways, M. Arson in our forests. *Minnesota Fire Chief* 14, no. 1 (1977): 10-11.
- Sanders, D. The investigation of fires through photographs. *Fire and Arson Investigator* 41, no. 3 (1991): 60.
- Sanderson, J. Clothes dryer fires. *Fire and Arson Investigator* 39, no. 2 (1988): 59-60.
- Sandrick, K. Psychiatrist's goal: Stop child arsonists. *American Medical News* (1982): 16-17.
- Sapsford, R.J., C. Banks, D.D. Smith. Arsonists in Prison. *Medicine, Science and the Law* 18, no. 4 (1978): 247-254.
- Sauerteig, D., M. O'Connor. Predict and prepare. New Haven's AWPS program helps authorities pinpoint hot spots. *Firehouse* 5, no. 8 (1980): 43-44+.
- Sawyer, R.G. Psychology of arson. *Fire Chief* 19, no. 6 (1975): 40-42.
- Saxby, R. Development of access control systems and their role in fire safety. *Fire Prevention* no. 187 (1986): 21-24.
- Scanlon, R. Apprehending the arsonist of anywhere, U.S.A.. *Law Enforcement Technology* 16, no. 6 (1989): 18-22.
- Scarberry, J.A. Be fire-wise on your vacation. *West Virginia Fire Arson Investigator* 1, no. 2 (1991): 9.
- Scarberry, J.A. Smoke detectors. *West Virginia Fire Arson Investigator* 1, no. 2 (1991): 11.
- Scarbrough, E. Sketching the fire scene. *Fire and Arson Investigator* 29, no. 1 (1978): 17-28.
- Scearce, M.A. Avoiding liability in an arson case. Suggestions for the defense. *UMKC Law Review* 47, no. 3 (1979): 389-416.

Schmidt, H. Boston's neighborhood arson fighters. *International Association of Fire Chiefs* 44, no. 4 (1978): 6-8.

Schmidt, W.W. Pensions. *Fire Chief* 33, no. 5 (1989): 30.

Schreiber, F.R., M. Herman, Computer age in psychoanalysis. *Science Digest* (1965): 18-22.

Schroeder, J. Ambulance fire tied to fuel line: Agencies assail recall intended to fix problem. *Fire and Arson Investigator* 39, no. 1 (1988): 52-53.

Schroeder, J.D. Uniform crime reports arson incident. *Fire and Arson Investigator* 38, no. 4 (1988): 12.

Schuman, C.K. Complete information. *Fire and Arson Investigator* 39, no. 3 (1989): 17-19.

Scollins, J. Joint team fights arson in city. *Fire Command* 42, no. 12 (1975): 26-27.

Scott, D. Problems of malicious fire raising. *British Journal of Hospital Medicine* 19, no. 3 (1978): 259-263.

Scott, L.G. Presenting the arson case. *Fire Command* 46, no. 2 (1979): 19-22.

Security World Publishing Company. Burning question: How to snuff arson's rapid growth. *Security World Publishing Company* 16, no. 3 (1979): 14, 53-55.

Segal, L. Part II: Ignition sources. *National Fire and Arson Report* 3, no. 1 (1985): 5-6.

Seger, K.A. Arson information management system. *Fire and Arson Investigator* 38, no. 1 (1987): 24-26.

Seger, K.A. Managing the threat of terrorism. *Fire and Arson Investigator* 27, no. 1 (1986): 30-33.

Seidel, G.E. Arson for profit. *Fire Engineering* 144, no. 1 (1991): 51-52.

Seidel, G.E. Arson task force. *Fire Engineering* 144, no. 1 (1991): 44-45.

Semling, H.V. Arson grants available. *Fire Chief* 29, no. 5 (1985): 6.

Semling, H.V. FEMA contracts. *Fire Chief* 30, no. 1 (1986): 10.

Semling, H.V. Seeking applications for assistance. *Fire Chief* 29, no. 6 (1985): 6.

Semling, H.V. USFA funds arson publication. *Fire Chief* 29, no. 6 (1985): 6.

Sentinel. Arson: A part 1 crime. *Sentinel* 36, no. 1 (1980): 3.

Sentinel. Fire is a fire is a fire. *Sentinel* 36, no. 1 (1980): 10-11.

Sentinel. Incendiarism in industry. *Sentinel* 31, no. 1 (1975): 4-5.

Sentinel. Incendiary loss: Its special characteristics. *Sentinel* 31, no. 1 (1975): 6-7.

Sentinel. Interview with a professional torch. *Sentinel* 36, no. 1 (1980): 4-5.

Sentinel. Predict, prevent and control arson with increased industrial security. *Sentinel* 36, no.1 (1980): 5-6.

Sentinel. Profile of an amateur arsonist. *Sentinel* 36, no. 1 (1980): 5-9.

Sentinel. Protection against incendiary losses. Factors in prevention and loss control. Recommendations. *Sentinel* 31, no. 1 (1975): 8-11.

Seran, P. Arson alert: The heat is on. *Fire Command* 47, no. 4 (1980): 25.

Seran, P. Heat is on: Arson comes under attack in .B.C. *Fire Fighting in Canada* 23, no. 4 (1979): 6+.

Sevakis, C. In the trenches. Detroit's Chief Trueman faces a fruitless, uphill battle. *Firehouse* 6, no. 8 (1981): 53-54.

Sherman, E.R. Bomb procedures for first responders. *American Fire Journal* 41, no. 10 (1989): 32-33.

Shiok, W.L. Collecting accelerants from concrete. *Fire and Arson Investigator* 36, no. 12 (1985): 44-t..

Shouldis, W. D.E.T.E.R. arson for profit. *Fire Engineering* 143, no. 1 (1990): 10.

Siedel, G.E. Arson task forces. *Fire Engineering* 144, no. '1 (1991): 44-46.

Simmons, A. Hotel fire threatens downtown Burbank. *American Fire Journal* 41, no. 5 (1989): 24-25.

Simmons, A. Los Angeles \$22 million blaze at central library requires city's largest commitment of firefighting. *Firehouse* 11, no. 8 (1986): 33-35+.

Sloan, J. Why do so many supper clubs burn down?. *Minnesota Fire Chief* 21, no. 3 (1985): 8-9.

Smith, D. Arson: Again on the rise. *Firehouse* 11, .no. 8 (1986): 5.

Smith, D. Covering devil's night in Detroit. *Firehouse* 10, no. 1 (1985): 5.

Smith, D. Glitter and ash. Deadly arson. From the new novel by Dennis Smith. *Firehouse* 5, no. 8 (1980): 25-26+.

Smith, D. Ignorance and stupidity kill. *Firehouse* 12, no. 3 (1987): 5.

Smith, D. Is justice served. *Firehouse* 12, no. 8 (1987): 5.

Smith, D. Theaters, restaurants, supper clubs. The message of chapais. How safe. *Firehouse* 5, no. 4 (1980): 52-54.

Smith, D.C. Heat tape and cable fires. *Fire and Arson Investigator* 39, no 3 (1989): 38-40.

Smith, D.C. Heat tape fires. *IAEI News* (1989): 37-39.

Smith, DC. Self-regulating heat cable fires. *National Fire and Arson Report* 7, no. 1 (1989): 3+.

Smith, D.H. Fire death investigation. *National Fire and Arson Report* 8, no. 4 (1990): 1+.

Smith, F.P. Concrete spalling: Controlled fire tests and review. *Journal of Forensic Science Society* 31, no. 1 (1991): 67-75.

Smith, G.L. Natural and LP gas investigations. *National Fire and Arson Report* 8, no. 6 (1990): 3+.

Smith, M.R. Arson analysis by mass chromatography. *Analytical Chemistry* (1982): 1399-1409.

Smith, R. Alabama arson prevention task force. *Alabama Fire Arson Investigator* 1, no. 4 (1991): 16-17.

- Smith, R.M. Mass chromatographic analysis of arson accelerants. *Journal of Forensic Sciences* 28, no. 2 (1983): 318-329.
- Smith, SC. High temperature accelerant fires. *Firehouse* 16, no. 8 (1991): 41+.
- Snodgrass, J.W. Manual for conducting background investigations. *Fire and Arson Investigator* 37, no. 1 (1986): 34-36.
- Snow, A.W. Danger: Criminals at work. *Fire Prevention* no. 196 (1987): 14-17.
- Snyder, D.F. Search warrants for arson investigations. *Fire Chief* 22, no. 8 (1978): 88+.
- Sommers, C.L. Deposing an adverse expert: Hammers and nails, *Fire and Arson Investigator* 41, no. 3 (1991): 25-29.
- Soothill, K.L., P.J. Pope. Arson: A twenty-year cohort study. *Medicine, Science, and the Law* 13, no. 2 (1973): 127-138.
- Soper, I.M. Role of the forensic pathologist in arson and related investigations. *Fire and Arson Investigator* 34, no. 4 (1984): 27-32.
- Sorenson, D. Sifting solving. *Arizona Arson Investigator* 2, no. 4 (1991): 10-11+.
- Speigelman, A. Autopsy of an explosion. *Fire and Arson Investigator* 36, no. 1 (1985): 13-17.
- Spicer, S.R., R.B. Thomas. Barney: The arson-sniffing dog. *Firehouse* 13, no. 8 (1988): 18+.
- Spillman, T.C., T.A.Zak. Arson: An economic phenomenon. *American Economist* (1979): 37-43.
- Staats, G.R. Giving the right exposure to arson. *Firehouse* 5, no. 8 (1980): 16+.
- Stacey, J.W., D.J. Szymanski. House on the move: Becomes arson target. *Fire Command* 55, no. 12 (1988): 23-25.
- Stafford, J.B. Remarks of Joan B. Safford. *Fire and Arson Investigator* 35, no. 3 (1985): 3-5.
- Stahura, J.M., R.C. Hollinger. Routine activities approach to suburban arson rates. *Sociological Spectrum* 8, no. 4 (1988): 349-369.
- Stambaugh, H. Arson in the United Kingdom. *Fire and Arson Investigator* 42, no. 2 (1991): 43-47.
- Starke, S.P., W.E. Clark. Arson evidence restriction eased by latest supreme court decision. *Fire Engineering* 133, no. 8 (1980): 38+.
- State Peace Officers Journal. Arson increasing faster than most other crimes. *State Peace Officers Journal* 11, no. 32 (1974): 130.
- Stephens, A. Arson defense: Burden of proof. *Fire and Arson Investigator* 38, no. 2 (1987): 38.
- Stern, D. Older juvenile firesetters. Can the justice system help. *Firehouse* 16, no. 8 (1991): 30-32.
- Steuerwald, J.E. Recognition, protection of evidence are basic steps to arson prosecution. *Fire and Arson Investigator* 30, no. 3 (1980): 27-32.
- Stevenson, C. Arson-to-order in the building trades. *Reader's Digest* 108 (1976): 85-90.
- Stewart, M.A., K.W. Culver. Children who set fires: The clinical picture and a follow-up. *British Journal of Psychiatry* 140 (1982): 357-363.
- Stewart, R.A. Legal hotseat. Liability has become a burning issue for fireground commanders. *Firehouse* 6, no. 3 (1981): 34+.
- Stickevers, J. Investigation of fatal fires: Part 1: Views of the fire investigator. *Fire and Arson Investigator* 37, no. 3 (1987): 22-24.
- Stickney, C.W. How to identify fire causes. *NFPA Firemen* (1960): .
- Stickney, C.W. Recognizing where arson exists. *Fire and Arson Investigator* 34, no. 4 (1984): 46-48.
- Stickney, C.W. Recognizing where arson exists. Part 2. Conclusion. *Fire and Arson Investigator* 35, no. 1(1984): 10-20.
- Stockman, CR. The hearsay nemesis. *Alabama Fire Arson Investigator* 1, no. 2 (1991): 22-23.
- Stone, I.C., J.N. Lomonte. False positives in analysis of fire debris. *Fire and Arson Investigator* 34, no. 3 (1984): 36-40+.
- Strachan, J.G. Conspicuous firesetting in children. *British Journal of Psychiatry* 138 (1981): 26-29.
- Straeter, R.L. Insurance motive fires. *Journal of Criminal Law, Criminology and Police Science* 46 (1954): 277-280.
- Strayhorn, F. The investigator's role in arson investigation. *Arizona Arson Investigator* 2, no. 2 (1991): 24-25+.
- Strayhorn, F. The investigator's role in arson investigation. *Arizona Arson Investigator* 2, no. 3 (1991): 14-15.
- Strecker, G.P. Two liter soft drink jugs being used to make bombs. *Louisiana Fire Arson Investigator - The Boot* 1, no. 3 (1991): 7.
- Stricker, L., John Barracato: Big city arson investigator. *Firehouse* 4, no. 8 (1978): 10-11.
- Stuart, D.V. Shipboard fire investigation. *Fire and Arson Investigator* 29, no. 3 (1979): 55-58.
- Stuerwald, J. Recognition, protection of evidence are basic steps to arson prosecution. *Fire Engineering* 131, no. 8 (1978): 56-57+.

- Stutte, H., I. Dauner. Arson committed by minors: West Germany. *Monatsschrift Fuer Kriminologie Und Strafrechtsreform* 61, no. 5 (1978): 328-337.
- Sullivan, G.S. "But I don't conduct interviews..." *Fire Engineering* 142, no. 1 (1989): 36-40.
- Summers, P. Don't overlook commonplace tools when outfitting arson investigators. *American Fire Journal* 36, no. 6 (1984): 45-47.
- Swab, S.E. Another look at motive. *Fire and Arson Investigator* 35, no. 3 (1985): 35-39.
- Swab, S.E. Consideration of depth of char when establishing fire burn times. *Fire and Arson Investigator* 35, no. 3 (1985): 11-14.
- Sylvia, D. Arson program on way to fight nation's major fire problem. *Fire Engineering* 129, no. 8 (1976): 48-49.
- Sylvia, D. Battle plan for war against arson detailed in report to fire academy. *Fire Engineering* 129, no. 12 (1976): 42+.
- Sylvia, D. Computerized data showing results in New Haven battle against arson. *Fire Engineering* 131, no. 8 (1978): 75-76+.
- Talmadge, J. Insuring against arson. *Firehouse* 4, no. 8 (1979): 47-48.
- Tatsuno, S. Stopping arson. *Planning* 45, no. 7 (1979): 25-27.
- Taylor, J.J. Updated guidelines for defending arson for profit claims. *Forum* 14, no. 2 (1978): 192-204.
- Taylor, L.L. Psychological Stress Evaluator (P.S.E.). *Police Law Reporter* no. 9 (n.d.): 3-10.
- Taylor, R.E. Automotive fire investigation. A live school. *Fire and Arson Investigator* 32, no. 3 (1982): 3-9.
- Taylor, R.E. Carpet, wood floor and concrete burn patterns often are not from flammable liquids. *Fire and Arson Investigator* 35, no. 3 (1985): 32+.
- Taylor, R.E. Flammable and combustible liquid characteristics in certain types of fires: Part 12. *Fire and Arson Investigator* 37, no. 1 (1986): 45-48.
- Teague, P.E. Action against arson. *Fire Journal* 72, no. 2 (1978): 46-48+.
- Teague, P.E. Arson: The growing problem. *Fire and Arson Investigator* 27, no. 4 (1977): 3-6.
- Teague, P.E. Progress on the arson front. *Fire Journal* 73, no. 2 (1979): 28-30.
- Teems, D.H. Arsonist in a megastructure. *Fire Command* 47, no. 1 (1980): 16-17+.
- Tennent, T.G. Female arsonists. *British Journal of Psychiatry* 119 (1971): 497-502.
- Thaman, R.N. Laboratory can help investigator pluck arson evidence out of debris. *Fire Engineering* 131, no. 8 (1978): 48-50+.
- Thaman, R.N. Scientific advances in the analysis of fire debris. *Fire and Arson Investigator* 28, no. 1 (1977): 23-37.
- Thomas, CL. Arson debris control samples. *Fire and Arson Investigator* 28, no. 3 (1978): 23-25.
- Thomas, J. Arson test site sought. *Fire Chief* 33, no. 6 (1989): 6-7.
- Thomas, J. FEMA information: Juvenile firesetter partnership begins. *Fire Chief* 32, no. 10 (1988): 18.
- Thomas, J. Greene outlines USFA's future. *Fire Chief* 34, no. 10 (1990): 49-54.
- Thomas, R.A. Arson: An insurer's point of view. *Fire Prevention* no. 196 (1987): 22-24.
- Thomas, R.B. Jr. Use of canines in arson detection. *FBI Law Enforcement Bulletin* 58, no. 4 (1989): 22-24.
- Thomsett, M.C. Task force uses many programs to combat arson in San Francisco. *Fire Engineering* 131, no. 8 (1978): 72-73.
- Thomsett, M.C. Three pronged attack on arson. *Fire Chief Magazine* 22, no. 10 (1987): 22-24.
- Tilon, D.S. How not to prepare for an arson prosecution. *International Fire Chief* 46, no. 5 (1980): 21-23.
- Timpeley, J. Fighting against arson. *Fire Surveyor* 17, no. 1 (1988): 40-41.
- Tobin, W.A. Arson investigations. *The FBI Law Enforcement Bulletin* 59, no. 2 (1990): 10.
- Tobin, W.A. What collapsed springs really tell arson investigators. *Fire Journal* 84, no. 2 (1990): 25-27.
- Tobin, W.A., K.L. Monson. Collapsed spring observations in arson investigations. A critical metallurgical evaluation. *Fire Technology* 25, no. 4 (1989): 317-335.
- Tontarski, R.E., R.A. Strocbel. Automated sampling and computer-assisted identification of hydrocarbon accelerants. *Journal of Forensic Sciences* (1982): 710-714.
- Totting, B. Community action to combat arson in Sweden. *Fire Prevention* no. 188 (1986): 28.
- Tranthim-Fryer, D.J. Application of a simple and inexpensive modified carbon wire absorption/solvent extraction technique. *Journal of Forensic Sciences* 35, no. 2 (1990): 271-280.
- Trapp, V. Broad-based task force attacks arson in Omaha. *International Fire Chief* 46, no. 5 (1980): 14-17.
- Tremblay, K.J. Arsonist ignites debris, warehouse/office building damaged; California. *NFPA Journal* 86, no. 1 (1992): 23.
- Tremblay, K.J. Arsonist ignites debris, warehouse/office building damaged; California. *NFPA Journal* 86 (1992): 23.

- Tremblay, K.J. Sprinklers check four-alarm fire in occupied commercial building. *NFPA Journal* 86, no. 1 (1992): 23.
- Trimpe, M.A. Turpentine in Arson Analysis. *Journal of Forensic Sciences* 36, no. 4 (1991): 1059-1073.
- Trimpe, M.A. R. Tye. Mass fragmentography in arson analysis. *Arson Analysis Newsletter* 7, no. 2 (1983): 26-42.
- Tsaroom, S. A suspected arson case: Distinguishing between primary origin and secondary origin. *Fire and Arson Investigator* 40, no. 4 (1990): 45-46.
- Tukel, S. Exclusion of evidence of a lack of criminal prosecution: A question of relevancy. *Arson Reporter* 8, no. 7-12 (1987): 43-52.
- U.S. Senate. Bill to amend title 18 of the United States code with respect to arson-for-profit; to the committee. *Congressional Record* 126, no. 24 (1980): 2.
- Ullman, K. Volunteer arson unit. *Fire Engineering* 138, no. 6 (1985): 70-71.
- Ulich, R.L. Repeating arsonist caught. *Fire Chief Magazine* 19, no. 11 (1975): 47-48.
- University of Virginia School of Law. Buzynski v Oliver: Allocation of the burden of Buzynski v Oliver. *Virginia Law Review* 63, no. 1 (1977): 147-160.
- Van Keuren, M. The cigarette fire: Was it accidental or was it arson? *Minnesota Fire Chief* 26, no. 3 (1990): 52.
- Vandersall, T.A., J.M. Wiener. Children who set fires. *Archives of General Psychiatry* (1970): 63-71.
- Vanzi, C., J. O'Brien. Improved organization spells trouble for arsonists. *Firehouse* 2, no. 2 (1977): 30-31.
- Vaughan, M.A. How to lift fingerprints from soot covered articles. *Fire and Arson Investigator* 31, no. 2 (1979): 54-55.
- Vaughan, M.A. Training, equipment needs of arson investigation team, *Fire Engineering* 131, no. 2 (1978): 52-53.
- Victim Witness Assistance Project of the American Bar Association. Arson victims: Suggestions for a system response. *Fire and Arson Investigator* 37, no. 4 (1987): 38-40+.
- Viera, D.L. From canines to counseling - combating arson. *Record* 67, no. 3 (1990): 11-13.
- Viera, D.L. Incendiarism: Is your facility a target. *Record* 65, no. 3 (1988): 3-7.
- Vinson, R.W. Insurance industry faces the arson dilemma. *International Fire Chief* 46, no. 5 (1980): 27-28.
- Virkunnen, M., et al. Cerebrospinal fluid monoamine metabolite levels in male arsonist. *Archives of General Psychiatry* 44 (1987): 241-247.
- Vliet, H.R. Will arson be recognized as a part 1 crime. *Fire Command* 45, no. 2 (1978): 19.
- Wachowiak, M., F. Zilke. The value of photography in a small fire department. *National Fire and Arson Report* 8, no. 5 (1990): 6+.
- Wagner, R.W. The investigation of fire through photographs: Yes, impossible. *Fire and Arson Investigator* 41, no. 3 (1991): 58-59.
- Wagstaff, G.D., C. Maguire. An experimental study of hypnosis, guided memory and witness memory. *Journal of the Forensic Science Society* 23, no. 1 (1982): 73-78.
- Walker, J. Strategic arms. Phoenix's computerized arson information system. *Firehouse* 6, no. 8 (1981): 46-49.
- Walker, M.R. Are arson fires worth risking firefighter safety. *Fire Chief* 32, no. 8 (1988): 39-40.
- Wall, E.M. U.S. Fire Administration meeting the challenge. *Firehouse* 15, no. 7 (1990): 82+.
- Walsh, R.E. Inner-city arson. *Fire and Arson Investigator* 33, no. 4 (1983): 9-11.
- Walshe-Brennan, K.S. Psychopathological factors in arson. *Nursing Mirror* (1977): 12-15.
- Walter, R.D. Lust arson and rape. A factorial approach. *Police Surgeon* (1985): 16-21.
- Walters, J. Arson. A heritage in flames. *Historic Preservation* 33, no. 2 (1981): 11-19.
- Wanstall, T. Evidence photography. The right exposure for arson. *Firehouse* 6, no. 6 (1981): 14+.
- Ward, R. FPA large fire analysis for 1985: Arson responsible for 40 percent of the cost of large losses. *Fire Prevention* no. 207 (1988): 24-30.
- Waters, L.V. Adequate analysis of laboratory data. *Fire and Arson Investigator* 41, no. 3 (1991): 61-62.
- Waters, M.S. County-level attack on arson. *Fire Engineering* 130, no. 9 (1977): 33.
- Webb, N.B., et al. Collaborative treatment of juvenile firesetters: Assessment and outreach, *American Journal of Orthopsychiatry* 60, no. 2 (1990): 305-310.
- Webber, CC., M.A. Garten. Improved apparatus for processing arson evidence. *Arson Analysis Newsletter* 6, no. 5 (1982): 85-97.
- Weisman, H.M. National anti-arson strategy: Its progress and status. *Fire Journal* 77, no. 3 (1983): 48-48+.
- Wertheim, P.A. Investigation of ritualistic crime scenes. *Journal of Forensic Identification* 39, no. 2 (1989): 97-106.
- White, G.M. Explosive drug case. *Journal of Forensic Science* 37, no. 2 (1992): 5.
- Wideman, T.A. Eight-alarm arson in Baltimore. *Firehouse* 6, no. 2 (1981): 23-24.
- Wiechert, J. Tribute to John Stuerwald. *Fire and Arson Investigator* 36, no. 3 (1986): 7-10.
- Wiener, J. Firesetting triggered by stress. *Firehouse* 10, no. 9 (1985): 42+.

- Wiklund, N. Motivated and motiveless fire setting in Sweden. *Fire Prevention* no. 189 (1986): 22-24.
- Wilder, S. Illinois: Critical water supply and propane explosions hamper Bradley firefighters during 5-11 arson. *Firehouse* 14, no. 11 (1989): 54-57+.
- Wilkinson, C.A. California's new arson law. A weapon for the war on arson. *Criminal Justice Journal* 4, no. 1 (1980): 115-140.
- Williams, D.E., C. O'Farrell. First-degree arson: Atlanta youths maim children in firebomb attack. *Firehouse* 12, no. 10 (1987): 67-68.
- Williams, H.E., M.J. Pavllsin, SM. Kightlinger. Understanding and effectively utilizing the arson reporting immunity laws. *Fire and Arson Investigator* 42, no. 2 (1991): 23-31.
- Wilson, H.W. Million dollar school arson. *Security World* 12, no. 3 (1975): 62-63.
- Wilson, M.R. Intelligence units reduce arson. *Fire Chief* 32, no. 8 (1988): 46+.
- Winger, J. Office fires controlled by quick response sprinklers. *Fire and Arson Investigator* 38, no. 4 (1988): 13.
- Winston, A., U.H. Newman. Arson detection model. *Fire Technology* 18, no. 2 (1982): 144-151.
- Wise, M.K. Arson. What three cities are doing about arson. *Fire Chief* 21, no. 4 (1977): 53-57.
- Witkin-Lanoil, G. All pyros are psychos: But they split into three types of disorders. *Fire Engineering* 131, no. 8 (1978): 40-41+.
- Wittig, C. Hazards for the fire investigator. *Fire and Arson Investigation* 41, no. 3 (1991): 22-23.
- Wolff, R. Satiation in the treatment of inappropriate fire setting. *Journal of Behavior Therapy and Experimental Psychiatry* 15, no. 4 (1984): 337-340.
- Wood Preserving. How to cope with arson without really trying and succeed. *Wood Preserving* 49, no. 7 (1971): 9-11.
- Woodall, R.D. Why do fires in school buildings cause so much damage. *Fire Prevention* no. 223 (1989): 5.
- Wooden, W.S. Arson is epidemic, and spreading like wildfire. *Fire and Arson Investigator* 36, no. 12 (1985): 39-43.
- Wooden, W.S. Flames of youth. *Fire and Arson Investigator* 36, no. 1 (1985): 46-47+.
- Wooden, W.S. The flames of youth. *Psychology Today* (1985): 22-26+.
- Woodenk, W.S. Firestarters. *California Fire Arson Investigator* 2, no. 2 (1991): 28-31.
- Woodfork, W.G. Arson. Not just a fire department problem. *The Police Chief* 57, no. 12 (1990): 28.
- Woodhouse, L.R. Arson termed 'national disgrace'. *Nation's Cities Weekly* 9 (1986): 5.
- Woodhouse, L.R. Nation's cities put the heat on arson. *Fire and Arson Investigator* 38, no. 1 (1987): 62-63.
- Woods, E.K. Investigating arson: Coping with constitutional constraints. *Security Management* 35, no. 11 (1991): 80.
- Woodward, C.D. Arson: A world-wide problem. *Fire Protection* 12, no. 4 (1985): 10-13.
- Woodward, CD. European links strengthened, UK activities centre on arson. *Fire* 80, no. 991 (1988): 44.
- Woodward, C.D. Industrial fire problem: Part 2. *Fire Prevention* no. 219 (1989): 28-30+.
- Woodward, D.C. The industrial fire problem: Part two. *Fire Prevention* no. 219 (1989): 28-30+.
- Woodward, E.H. Investigation of arson: The Cleveland experiment. *Police Journal* 58, no. 2 (1985): 111-117.
- Woodward, W.S. Flames of youth. *Fire and Arson Investigator* no. 186 (1985): 46-47+.
- Woolf, P.G. Arson and moebius' syndrome: A case study of stigmatization. *Medical Science Law* 17, no. 1 (1977): 68-70.
- Worters, L.L. Hollywood stokes public concern over arson. *Hazard Monthly* 11, no. 6 (1991): 12.
- Worters, L.L. Hollywood stokes the fires on arson. *West Virginia Fire Arson Investigator* 1, no. 2 (1991): 10.
- Wynocker, D.L. Marshaling forces: Team effort from FD and insurance company essential. *Firehouse* 12, no. 8 (1987): 65+.
- Yarnell, H. Firesetting in children. *American Journal of Orthopsychiatry* 10 (1940): 272-286.
- Yip, I.H., E.G. Clair. Rapid analysis of accelerants in fire debris. *Canadian Society of Forensic Science Journal* 9, no. 2 (1976): 75-80.
- Yokota, E. Japanese views on arson have paid dividends. *Fire International* 15, no. 128 (1991): 38.
- Young, K.R. Excuses, excuses: What the fire marshal didn't tell you but you need to know about fire investigation. *Fire and Arson Investigator* 42, no. 1 (1991): 34-38.
- Young, K.R. Los Angeles. Arson at the Oxford. *Firehouse* 4, no. 8 (1979): 36-37.
- Zacks, M. Exotic arson suspected in woodland blaze. *California Fire Arson Investigator* 2, no. 2 (1991): 25.
- Zanger, M. Arson at the top: Boston busts an arson ring. *Firehouse* 2, no. 12 (1977): 28-29+.
- Zieres, B. Secure the scene says arson investigator. *Minnesota Fire Chief* 21, no. 4 (1985): 34.

REPORTS

- Ablott, R., et al. *Certification of fire/arson investigations: Pro and con*. Emmitsburg, MD: National Fire Academy, 1983.
- Abt Associates. *Arson control: A sythesis of issues and strategies based on the arson control assistance program*. Washington, DC: U.S. Law Enforcement Assistance Administration, 1981.
- Abt Associates Inc. *Arson prevention and control: Program model*. Cambridge, MA: Abt Associates Inc., 1980.
- Abt Associates. *Developing arson control strategies: Services for the insurance industry and government*. Cambridge, MA: Abt Associates, n.d.
- Acerman, R.J., et al. *Chemistry and physics of fire*. Emmitsburg, MD: National Fire Academy, 1983.
- Adams, G.L., et al. *Establishing requirements of the fire/arson investigator*. Emmitsburg, MD: National Fire Academy, 1983,
- Adams, K.R., et al. *Let's standardize the arson laws*. Emmitsburg, MD: National Fire Academy, 1983.
- Adams, M.J., et al. *Evidence collection and preservation*. Emmitsburg, MD: National Fire Academy, 1981.
- Adams, R.J., et al. *Arson '76*. Boston, MA: Society of Fire Protection Engineers, 1976.
- Addis, R., et al. *Fire investigations of fires involving plastics and foams*. Emmitsburg, MD: National Fire Academy, 1982.,
- Aerospace Corporation. *Proposed aerospace support program for arson control*. Aerospace Corporation, 1977.
- Aetna Life and Casualty. United States Fire Administration. Factory Mutual. *City of New Haven arson warning and prevention strategy: A model program for arson early warning*. New Haven, CT: New Haven. Fire Department, 1980.
- Aki, M., et al. *Don't overlook spontaneous ignition*. Emmitsburg, MD: National Fire Academy, 1983.
- Albert, L., et al. *The use of videotape in fire and arson investigations*. Emmitsburg, MD: National Fire Academy, 1982.
- Alford, C., et al. *Understanding the gas chromatograph*. Emmitsburg, MD: National Fire Academy, 1983.
- Allen, T.W. *Assessment of the key activity indicators. An addendum to the case study reports*. N.p.: n.p., 1980.
- Allen, T.W. *Case study report Phoenix, Arizona arson prevention and control programs*. Washington, DC: American Institute for Research, 1980.
- Allen, T.W. *New Haven, Connecticut, arson prevention and control programs*. N.p. 1980.
- Allen, W.D., et al. *Backdraft: Not to be confused with flashover*. Emmitsburg, MD: National Fire Academy, 1982.
- Alletto, W.C. *Fire investigation management*. N.p., n.d.
- Alletto, W.C. *A professional approach to the investigation of fires and explosions by the fire service*. Chicago, IL: William C. Alletto, 1970.
- Alliance of American Insurers. *Arson information kit*. Chicago: Alliance of American Insurers, n.d.
- Alliance of American Insurers. *Arson-some common sense solutions*. N.p. 1976.
- Alliance of American Insurers. *Could it be arson? How can you tell? A guide for claim representatives handling fire claims*. Chicago: Alliance of American Insurers, 1976.
- Allmoslecher, H.L., et al. *Proof of loss us applies to insurance fraud cases*. Emmitsburg, MD: National Fire Academy, 1982.
- American Bar Association. *Arson victims: Suggestions for a system response*. Washington; DC: American Bar Association, 1983.
- American Bar Association. Center for Criminal Justice. *Report to ABA President S. Shepherd Tate with recommendations on the ABA role in the prevention and the control of arson*. Washington, DC: American Bar Association, 1979.
- Anderson D., et al. *Benefits of an eairly response in an arson investigation*. Emmitsburg, MD: National Fire Academy, 1983.
- Anderson, H., et al. *Kinsesic interrogation*. Emmitsburg, MD: National Fire Academy, 1983.
- Anderson, J.R. et al. *Responsibilities between arson investigators and firefighters*. Emmitsburg, MD: National Fire Academy, 1983.
- Anderson, M. et al. *Aircraft fire investigations*. Emmitsburg, MD: National Fire Academy, 1983.
- Anderson, R. et al. *Children firesetting and the Firehawkprogram*. Emmitsburg, MD: National Fire Academy, 1984.
- Anderson, W. et al. *A few preliminary observations on "Black Tuesday". The February 7, 1967 fires in Tasmania, Australia*. Columbus, OH: Disaster Research Center, 1967.
- Andreae, G.F., et al. *Organization and structure of an arson tusk force*, Emmitsburg, MD: National Fire Academy, 1982.

- Andrews, R., et al. *The arson investigator and the prosecutor: Cooperation or conflict*. Emmitsburg, MD: National Fire Academy, 1982.
- Andrews, R.R., et al. *Cause determination in extensively damaged structures*, Emmitsburg, MD: National Fire Academy, 1983.
- Andrus, D.A., et al. *The Clifford decision: Clarity or confusion*. Emmitsburg, MD: National Fire Academy, 1984.
- Antich, Edward. *Juvenile fire setter programs - are they effective*. Emmitsburg, MD: National Fire Academy, 1989.
- Apfelthaler, H., et al. *Defining and recognizing the effects of concrete spalling*. Emmitsburg, MD: National Fire Academy, 1982.
- Appelbaum, K.L. *Criminal defendants who desire punishment*. Baltimore, MD: American Academy of Psychiatry and the Law, 1990.
- Arkansas University. *Seed proposal to investigate fire safety problems as affected by human behavior: Final status report*. Pine Bluff: Arkansas University, 1981.
- Army. Office of the Provost Marshal General. *Industrial defense against civil disturbances, bombings, sabotage*. Washington, DC: Office of the Provost Marshal General, 1972.
- Arnold, J.V., et al. *Search and seizure and the fire/arson investigator*. Emmitsburg, MD: National Fire Academy, 1984.
- Arnone, S.A., et al. *The juvenile fire setter*, Emmitsburg, MD: National Fire Academy, 1981.
- Aronstein, J. *Fire hazard due to high resistance connections. Electrical fire investigation: Course notes*. Poughkeepsie, NY: Jesse Aronstein, 1986.
- Aronstein, J. *Overheating failures of presently-listed aluminum-wired connection combinations within rated service*. Ballston, Spa: Wright-Malta Corp., 1981.
- Arson Alarm Foundation, Inc. *Arson in Seattle public schools: Final report*. Seattle, WA: Arson Alarm Foundation, Inc., 1982.
- Arson in America: Report of the Senate Committee on Governmental Affairs made by its permanent Subcommittee*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1979.
- Arson Strike Force, City of New York. *Arson analysis and prevention project: Final report*. New York: Arson Strike Force, 1981.
- Ashe, G.M., et al. *The use of gypsum wallboard as an investigative tool*. Emmitsburg, MD: National Fire Academy, 1983.
- Augustine, C., et al. *Interviews and interrogations*, Emmitsburg, MD: National Fire Academy, 1982.
- Aurnhammer, T.W. *The use of outside funding and resources in fire investigation programs*. Emmitsburg, MD: National Fire Academy, 1991.
- Austin, D.L., et al. *The fire investigation van and equipment*. Emmitsburg, MD: National Fire Academy, 1983.
- Austin, G., et al. *Responsibilities of a fire/arson investigator*. Emmitsburg, MD: National Fire Academy, 1983.
- Auston, R., et al. *Safety considerations for the fire investigator*. Emmitsburg, MD: National Fire Academy, 1984.
- Auxier, A.E., et al. *Confidential informants and the arson case*. Emmitsburg, MD: National Fire Academy, 1982.
- Azarewicz, J.E., et al. *Application of the 4th and 6th Amendments of the United States Constitution as they relate to arson*. Emmitsburg, MD: National Fire Academy, 1982.
- Bacharach, Inc. *Combustible gas indicator: Instructions and conversion factors for Bacharach Sniffer 300*. Pittsburgh, PA: Bacharach, Inc., n.d.
- Backenstoss, J., et al. *Glass, What it tells the fire investigator*. Emmitsburg, MD: National Fire Academy, 1982.
- Badgett, J.L., et al. *Peace officer status for fire arson investigators: Advantages and disadvantages*. Emmitsburg, MD: National Fire Academy, 1984.
- Baird, A.W., A.L. Bertrand. *Incendiarism in southern forest: A decade of sociological research*. Mississippi State, MS: Mississippi. Agricultural and Forestry Experiment Station, 1975.
- Baird, A.W., M.L. Lightsey. *An analysis of socio-cultural characteristics of selected forest incendiaries*. Mississippi State, MS: Mississippi State University. Department of Sociology and Rural Life, 1977.
- Ban, W., et al. *Hazard assessment of afterglow of paper book matches*. N.p.: Consumer and Corporate Affairs Canada, 1991.
- Bang, W., et al. *Hazard assessment of afterglow of matches*, N.p.: Consumer and Corporate Affairs Canada, 1989.
- Bank, N.G., et al. *Explosion associated with fires*. Emmitsburg, MD: National Fire Academy, 1983.
- Banta, P., et al. *Polygraph as an investigative tool in arson investigation*. Emmitsburg, MD: National Fire Academy, 1983.
- Bard, P.N., et al. *The FAIR plan*. Emmitsburg, MD: National Fire Academy, 1981.
- Barnes, J.F. *Evaluation of the linear fire extinguisher (LFE)*. China Lake, CA: Naval Weapons Center, 1989.

- Barone, F., et al. *Fatal fires. Accidental, homicide or suicide*. Emmitsburg, MD: National Fire Academy, 1984.
- Barracato, J.S. *Testimony of John S. Barracato before the Senate subcommittee*. Washington, DC: Superintendent of Documents, 1980.
- Barracato, J.S., P.S. Keenley. *Fire; Is it arson*. Hartford, CT: Aetna Casualty and Surety Company, 1979.
- Barrett, P., et al. *General problems encountered with prosecutors accepting arson cases for prosecution and practical solutions*. Emmitsburg, MD: National Fire Academy, 1982.
- Bartholomew, J., et al. *Police/fire team approach to fire investigation*. Emmitsburg, MD: National Fire Academy, 1984.
- Bates, G.F., et al. *A systematic approach to determining point of origin*. Emmitsburg, MD: National Fire Academy, 1981.
- Bates, R.B. *Structural fire investigation worksheet*. Salinas, CA: Bates Investigations, 1983.
- Bates, R.B. *Vehicle fire investigation worksheet*. Salinas, CA: Bates Investigations, 1985.
- Battelle Memorial Institute. Columbus Laboratories. *Proposal to design, develop and implement the arson information center for professional exchange*, ed. Columbus, OH: Battelle Memorial Institute, 1976.
- Baures, R.E., et al. *Fire/police arson task force: A practical approach*. Emmitsburg, MD: National Fire Academy, 1983.
- Beach, K.L., et al. *Laboratory fire modeling: Part 1: Wind-aided flame spread: Part 2. Wet coagulation of smoke*. Redondo Beach, CA: TRW Electronics and Defense Sector, 1986.
- Beahan, W.E., et al. *Juvenile fire setter; The Houston solution*. Emmitsburg, MD: National Fire Academy, 1987.
- Bearden, B.L., et al. *Michigan vs Tyler*. Emmitsburg, MD: National Fire Academy, 1981.
- Beck, A., et al. *Psychotic, identifiable traits of fire setters*. Emmitsburg, MD: National Fire Academy, 1984.
- Bedford, J.C., et al. *Solid fuel heating device fuels*. Emmitsburg, MD: National Fire Academy, 1983.
- Bedwell, R.E., et al. *Professional qualifications for fire/arson investigators*. Emmitsburg, MD: National Fire Academy, 1982.
- Beland, B. *Electricity as a cause of fires*. Boston: Society of Fire Protection Engineers, 1984.
- Bender, J.F., et al. *Should arson investigation be a fire service or a police service responsibility*. Emmitsburg, MD: National Fire Academy, 1985.
- Benjamin, D.F., et al. *Arson photography*. Emmitsburg, MD: National Fire Academy, 1981.
- Benson, B.E., M.E. Boyer. *Fire in Kansas, 1979*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- Bercovici, M.W. *Michigan v. Tyler, Michigan v. Clifford*. Monmouth Co. Prosecutor's Office/Arson Unit, n.d..
- Berkol, A. *Sprinklers control arson fires in rack-storage warehouse, Mt. Prospect, IL*. Arlington, VA: TriData Corporation, 1989.
- Berrin, E.R. *Automatic sprinklers and their importance to the fire investigator*. Elliott R. Berrin, 1989.
- Berrin, E.R. *Investigative Photography*. Boston, MA: Society of Fire Protection Engineers, 1982.
- Berton, R.M., et al. *Visual aid preparation. A basic skill of the fire investigator*. Emmitsburg, MD: National Fire Academy, 1984.
- Bertrand, A.L., A.W. Baird. *Incendiarism in southern forests: A decade of sociological research*. Baton Rouge, LA: Louisiana State University, 1975.
- Blake, E.R., et al. *Interviews and interrogations*. N.p. 1982.
- Bochovich, P., et al. *Spontaneous human combustion: Fact or fiction*. Emmitsburg, MD: National Fire Academy, 1983.
- Boelts, H.S., et al. *The phenomenon of pyrolysis*. Emmitsburg, MD: National Fire Academy, 1983.
- Boice, D.J., et al. *Fire death investigation: Preparation and cooperation*. Emmitsburg, MD: National Fire Academy, 1984.
- Boise Interagency Fire Center. *Wildfire cause determination handbook*. Boise, ID: BIFC/National Wildfire Coordinating Group, 1978.
- Bonnett, R.T., et al. *Kinesic interrogation*. N.p. 1983.
- BonTempo, P.N., et al. *The fire scene spectator*. Emmitsburg, MD: National Fire Academy, 1983.
- Bookamer, W., et al. *Admissible searches of fire scenes*. Emmitsburg, MD: National Fire Academy, 1983.
- Borg, N., L. David. *Arson: A multi-dimensional problem*. Boston, MA: Society of Fire Protection Engineers, 1976.
- Bouchard, M., et al. *Investigating fraud fires: The paper chase*. Emmitsburg, MD: National Fire Academy, 1984.
- Boudreau, J.F. *Arson and arson investigation: Survey and assessment*. Washington, DC: National Institute of Law Enforcement and Criminal Justice, 1977.
- Boudreau, J.F. *Equipment systems improvement program: Survey and assessment of arson and arson investigation*. El Segundo, CA: Aerospace Corporation, 1976.

- Boudreau, J.F., Q.Y. Kwan. *Arson prevention and control strategies*. Washington, DC: Aerospace Corporation. Law Enforcement and Telecommunications Division, 1977.
- Bozich, J., et al. *Pyrophoric carbonization: The low temperature ignition source*. Emmitsburg, MD: National Fire Academy, 1984.
- Bradbury, M.D. *Arson detection, apprehension, prosecution team: Proposal to the Law Enforcement Assistance Administration*. Ventura, CA: Ventura County. District Attorney, 1979.
- Bradshaw, W.G., T.G. Huff. *Arsonists in California and New York: A tentative look*. Berkeley, CA: Pacific Southwest Forest and Range Experiment Station, 1985.
- Brady, J., et al. *Arson common law vs. arson today*. Emmitsburg, MD: National Fire Academy, 1982.
- Braun, E. *Report of fire tests on an AM General Metro Bus: Final report*. Gaithersburg, MD: National Bureau of Standards, 1980.
- Brewer, D., et al. *Proving the corpus delicti*. Emmitsburg, MD: National Fire Academy, 1982.
- Broen, W.K., T.A. Newman. *Juvenile firesetters*. Huntington, NY: William Gladden Foundation, 1989.
- Brooklyn College. Graduate Program in Urban Policy and Administration. *North Flatbush arson research project*. Brooklyn, NY: Brooklyn College, 1981.
- Brooks, B., et al. *Ultraviolet light as a tool for the investigator*. Emmitsburg, MD: National Fire Academy, 1984.
- Brooks, S.T., et al. *Surveillance in arson cases*. Emmitsburg, MD: National Fire Academy, 1984.
- Brotman, B.A., et al. *The impact of economic conditions on the incidence of arson*. Orlando, FL: American Risk and Insurance Association, 1988.
- Bruce, H.D. *Incendiary effects on building and interior kindling fuels*. Madison, WI: Forest Products Laboratory, 1953.
- Bruce, H.D., L.E. Downs, V.P. Miniutti. *Minimum short pulse radiation energies to ignited miscellaneous materials*. Madison, WI: Forest Products Laboratory, 1955.
- Bryan, J.L., P.J. DiNenno. *Examination and analysis of the dynamics of the human behavior in the fire incidents at the University*. College Park, MD: Maryland University, 1978.
- Bryan, J.L., P.J. DiNenno. *Examination and analysis of the dynamics of the human behavior in the fire incidents at the Shappard*. College Park, MD: Maryland University, 1979.
- Bubbett, D.H., et al. *The evaluation of spring temper: Its use in arson investigation*. Emmitsburg, MD: National Fire Academy, 1982.
- Buffington, R.H., et al. *Use of computers in arson investigations*. Emmitsburg, MD: National Fire Academy, 1982.
- Bureau of Alcohol, Tobacco and Firearms: Department of Housing and Urban Development; Federal Bureau. *A report to the President on progress in implementation of the national arson strategy*. Washington, DC: Federal Emergency Management Agency, 1981.
- Burlinhaus, N., et al. *A tool for arson investigation*. Emmitsburg, MD: National Fire Academy, 1984.
- Burn Institute. *Juvenile firesetter program: A program to help children who play with fire*. Burn Institute, n.d.
- California. Arson Prevention Committee, *The basic arson laws*, N.p., n.d.
- California Legislature Joint Committee on Fire, Police Emergency and Disaster Services. *Juvenile arson and firesetting-a growing problem*. Sacramento: California Assembly Publications Office, 1985.
- California State Board of Fire Service. *Annual symposium on professional excellence, "Mitigating the arson and bomb problem in California"*. N.p. 1989.
- California State Fire Marshal. California State Board of Fire Services. Governor's Special Arson Task Force. *Mitigating the arson and bomb problem in California*. Sacramento, CA: The Board, 1989.
- Callahan, J.K. *Training an arson dog*. Emmitsburg, MD: National Fire Academy, 1990.
- Campbell, R.J., et al. *Arson reduction through public education*. Emmitsburg, MD: National Fire Academy, 1983.
- Canadian Association of Fire Chiefs. *Guide to the intent and interpretation of the new arson legislation*, Ottawa, Ontario, Canada: Canadian Association of Fire Chiefs, n.d.
- Canerday, S.L., et al. *Arson photography*. N.p. 1981.
- Caplan, M.H., J.H. Anderson. *Forensics: When science bears witness*. Rockville, MD: National Criminal Justice Reference Service, 1984.
- Caplan, M.H., S.J.T. Duncan, M. Kravitz. *Arson: A selected bibliography*. Washington, DC: National Criminal Justice Reference Service, 1979.
- Cartnick, ST. *Investigation of an arson defense*. Steven T. Carmick, 1975.
- Carpenter, D.J., Jr., C. Jennings. *Power off to hard-wired detector in nine-fatality housefire, Peoria, IL*. Arlington, VA: TriData Corporation, 1989.
- Carrier, G., F. Fendell, P. Feldman. *Studies in urban-scale-fire thermohydrodynamics: Technical report*. Redondo Beach, CA: TRW Electronics and Defense, 1984.

- Cary, T.D., et al. *Juvenile arsonists*. Emmitsburg, MD: National Fire Academy, 1984.
- Cashman, D., et al. *Fire investigator vs. defense*. Emmitsburg, MD: National Fire Academy, 1984.
- Catano, D.A., et al. *Vehiclefires*. Emmitsburg, MD: National Fire Academy, 1981.
- CFPA Europe. *CFPA Europe dossier on the prevention and control of arson*. N.p. 1988.
- Chambers, S., et al. *Standard operating procedures*. Emmitsburg, MD: National Fire Academy, 1983.
- Chandler, SE. *Statistical studies of fires*. Watford, England: Building Research Establishment, 1991.
- Chapman, J.L. *Psychological stress evaluation: Narrative testing*. N.p. 1983.
- Chochran, F.R., et al. *The arsonist and alcohol*. Emmitsburg, MD: National Fire Academy, 1983.
- Christoff, A.B., et al. *Fire/arson investigation diagram/sketch*. Emmitsburg, MD: National Fire Academy, 1984.
- Ciliberto, J.A., et al. *Visual aid preparation-a basic skill of the fire investigator*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1984.
- City of New Haven. *Socio/economic arson research project: Preliminary report*. New Haven, CT: City of New Haven, 1981.
- City of New York Arson Strike Force. *Semi-annual report to the city council: July 1, 1981-December 31, 1981*. New York: City of New York Arson Strike Force, 1981.
- Clark, J.E., H.E. Hickey. *Arson investigation devices*. Washington, DC: United States Fire Administration, 1979.
- Clarke, F.B., D.W. Raisher. *Attacking the fire problem: A plan for action*. Rockville, MD: National Criminal Justice Reference Service, 1976.
- Clarke, J.C., et al. *The investigation of fire fatalities*. Emmitsburg, MD: National Fire Academy, 1982.
- Cliett, W.B., et al. *Law enforcement/fire. Cooperative fire investigation*. Emmitsburg, MD: National Fire Academy, 1984.
- Cloninger, D.O. *Risk, arson and abandonment*. Orlando, FL: American Risk and Insurance Association, 1981.
- Clough, R., et al. *Polygraph as an investigative tool in arson investigation*. N.p., n.d.
- Coatney, C., et al. *So you think it is electrical*. Emmitsburg, MD: National Fire Academy, 1983.
- Cobb, R.C., et al. *Chemistry and physics of fire*. N.p. 1983.
- Coldren, C. *Data sources on the incidence on arson in Illinois*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1977.
- Coldren, J.R. *Data sources on the incidence of arson in Illinois*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- Coleman, R., et al. *Techniques of an interview*. Emmitsburg, MD: National Fire Academy, 1984.
- Conaway, C.W. *Prevention of arson in industrial facilities*. Hartford, CT: Industrial Risk Insurers, 1978.
- Congress. Senate. Committee on Appropriations. *Report to the U.S. Senate Committee on Appropriations: Arson prevention and control*. Washington, DC: United States Fire Administration, 1981.
- Congress. Senate. Committee on Governmental Affairs. Permanent Subcommittee on Investigations. *Staff study of the role of the insurance industry in dealing with arson-for-profit*. Washington, DC: Superintendent of Documents, 1979.
- Congress. Senate. Committee on the Judiciary. Subcommittee on Criminal Justice. *Statement of Robert B. Smith before the subcommittee on Criminal Justice, Committee on the Judiciary*. Boston, MA: National Fire Protection Association, 1980.
- Congress, Senate, Committee on the Judiciary. Subcommittee on Criminal Justice. *Testimony by Paul A. Zolbe before the Senate Subcommittee on Criminal Justice*. Washington, DC: Federal Bureau of Investigation, 1980.
- Congress. Senate. Committee on the Judiciary. Subcommittee on Criminal Justice. *Statement of Charles H. Fritzel before the Subcommittee on Criminal Justice*. Washington, DC: Superintendent of Documents, 1980.
- Congress. Senate. Committee on the Judiciary. Subcommittee on Criminal Justice. *Testimony of Eugene L. Jewell before the Senate Subcommittee on Criminal Justice*. Washington, DC: Superintendent of Documents, 1980.
- Congress. Senate. Permanent Subcommittee on Investigations. *Arson-for-profit: More could be done to reduce it*. Washington, DC: Superintendent of Documents, 1978.
- Congress. Senate. Permanent Subcommittee on Investigations. *Arson in America*. Washington, DC: Superintendent of Documents, 1979.
- Conley, G.R., et al. *The expert witness in arson investigation*. Emmitsburg, MD: National Fire Academy, 1982.
- Connecticut Justice Commission, *Connecticut Governor's Arson Task Force-arson control assistance program*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1982.
- Conner, M., et al. *Arson. Mental illness vs. profession*. Emmitsburg, MD: National Fire Academy, 1982.

- Cook, J.L., E.H. Cook. *Arson, & insurance and protest: A bibliography, 1965-1977*. Arlington: Texas University, 1978.
- Cook, R., J.A. Roehl. *Neighborhood-based crime and arson prevention efforts*. Reston, VA: Institute for Social Analysis, 1983.
- Cook, R. et al. *National juvenile firesetter/arson control and prevention program: Assessment report*. Washington, DC: US Department of Justice Office of Juvenile Justice and Delinquency Prevention, 1989.
- Cook, R. et al. *National Juvenile Firesetter/Arson Control and Prevention Program Assessment Report Executive Summary*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1989.
- Cook, T., et al. *Vehicle fires: A neglected problem*. Emmitsburg, MD: National Fire Academy, 1981.
- Cooke, R.A. *Management guide to fire investigation*. N.p. 1988.
- Corkins, M., et al. *Vehicle fires: Investigations*. Emmitsburg, MD: National Fire Academy, 1982.
- Corrigan, C.H., J.T. Sessions; S.B. Thawley. *Arson strategy workshop-u summary report*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1979.
- Cranor, D., et al. *Importance of a comprehensive initial report*, Emmitsburg, MD: National Fire Academy, 1984.
- Crawford, P., et al. *Toxic fumes/respiratory hazards to investigators*. Emmitsburg, MD: National Fire Academy, 1982.
- Croquez, M., et al. *Fire scene spectator*. N.p. 1983.
- Crowell, M. *Arson investigations-inspection and search warrants*. N.p. 1979.
- Custer, R. *New York State Academy of Fire Science Arson Seminar: Computer modeling for fire investigation*. Richard Custer, 1991.
- Custer, R. *New York State Academy of Fire Science Arson Seminar: Fire dynamics for fire investigators*. Richard Custer, 1991.
- Danaher, J.J. *Juvenile firesetters program A summary of available resources*. Boston, MA: National Committee on Property Insurance, 1984.
- Daugenti, J., et al. *The evaluation of computers in arson investigation*. Emmitsburg, MD: National Fire Academy, 1982.
- Davis, J.H., et al. *Arson mail fraud*. Emmitsburg, MD: National Fire Academy, 1982.
- Dawson, E.J. *The vehicular arson problem: A task force approach*. Emmitsburg, MD: National Fire Academy, 1991.
- Daye, E.F.; et al. *Was flammable liquid used as an accelerant*. Emmitsburg, MD: National Fire Academy, 1983.
- Deanult, G.C., Q.Y. Kwan. *Equipment systems improvement program: Needs in arson investigation: A survey of arson investigators*. El Segundo, CA: Aerospace Corporation, 1976.
- Defense Nuclear Agency. *The role of fire in nuclear warfare: An interpretive review of the current technology for evaluating*. San Mateo, CA: URS Research, 1974.
- DeLeo, R., et al. *The pros and cons of an arson task force*. Emmitsburg, MD: National Fire Academy, 1982.
- DeMent, J.R., et al. *Sex crimes related to arson*. Emmitsburg, MD: National Fire Academy, 1982.
- Demmler, R., et al. *Fire/arson investigation*. Emmitsburg, MD: National Fire Academy, 1981.
- Desert Publications. *CIA field expedient incendiary manual*. Phoenix, AZ: Desert Publications, 1977.
- DeWall, J.S. *Establishing an investigative task force*. Emmitsburg, MD: National Fire Academy, 1990.
- Dey, H., et al. *Investigation of fires and explosions involving propane*. Emmitsburg, MD: National Fire Academy, 1983.
- Diester, R. et al. *Low temperature ignition phenomenon*, Emmitsburg, MD: National Fire Academy, 1981.
- Dimensions of juvenile arson and false fire alarms for the urban areas of San Diego*. Springfield, VA: National Technical Information Service, 1972.
- Dominquez, H., et al. *Vehicle fires: A discussion on emission control devices, electrical systems, and fuel delivery system*. Emmitsburg, MD: National Fire Academy, 1984.
- Doolittle, M.L., M.L. Lightsey. *Southern woods-burners: A descriptive analysis*. New Orleans, LA: Southern Forest Experiment Station, 1979.
- Dougenti, J., et al. *Evaluation of computers in arson investigation*. N.p. 1982.
- Doyle, B. *How afire spreads*. Chicago: National Association of Fire Investigators, n.d.
- Drury, M.J. *Case studies of arson prevention initiatives of neighborhood groups*. Washington, DC: American Institutes for Research, 1980.
- Drury, M.J. *The apartment improvement program An alternative approach to arson prevention in multi-family build*. Washington, DC: American Institutes for Research, 1980.
- Durst, M., et al. *Wildland fires investigation and prevention*. Emmitsburg, MD: National Fire Academy, 1984.
- Dwyer, T.E. *Civil actions for corporate/individual victims*. American Society of Industrial Security, 1982.

- Dymes, D.R. *Arson investigation and civil disorders*. Albany, NY: New York State Office of Fire Prevention and Control, 1969.
- Eastman Kodak Company. *Fire and arson photography*. New York: Eastman Kodak Company, 1969.
- Eastman Kodak Company. *Fire and arson photography*. New York, NY: Eastman Kodak Company, 1977.
- Eastman Kodak Company. *Setting up a small law-enforcement photography department*. Rochester, NY: Eastman Kodak, 1981.
- Eckersley, DC., et al. *Firefighters/police officers: Your responsibility at the fire scene*. Emmitsburg, MD: National Fire Academy, 1984.
- Economic Development Administration. United States Fire Administration. *Deliberations of the Massachusetts Arson Prevention Task Force*. Boston, MA: Massachusetts. Office of Lieutenant Governor, 1980.
- Educational Research Service Inc. *Losses due to vandalism, arson, and theft in public school systems, 1972-1973*. N.p. 1974.
- Emergency Education Network. *Local receive site coordination guide*. Emmitsburg, MD: National Fire Academy. Emergency Operations, 1985.
- Emergency Education Network. *Transcript of proceedings*. Rockville, MD: Technical Resources, 1985.
- Emerson, Z., et al. *Arson. Why*. Emmitsburg, MD: National Fire Academy, 1984.
- Ettling, B.V., M.F. Adams. *Study of accelerant residues in fire remains*. Rockville, MD: National Criminal Justice Reference Service, 1968.
- F.I.R.E. Solutions, Inc. *Adolescents, fires and false alarms, what every parent should know*. Fall River, MA: F.I.R.E. solutions, 1989.
- F.I.R.E. Solutions, Inc. *Curious children and fire, what every parent should know*. Fall River, MA: F.I.R.E. Solutions, 1989.
- F.I.R.E. Solutions, Inc. Resources. Fall River, MA: F.I.R.E. Solutions, n.d.
- F.I.R.E. Solutions Inc. *Smoke signals: What every parent should know about crisis firesetting*. Fall River, MA: F.I.R.E. Solutions, 1989.
- F.I.R.E. Solutions, Inc. *Teaching your child about fire (without getting burned)*. Fall River, MA: F.I.R.E. Solutions, 1989.
- Factory Mutual System Factory Mutual Engineering Corporation. *Incendiarism-a growing concern*. N.p. 1975.
- Fall River Firefighters' Museum Inc. *Children and fire, what every parent should know*. Fall River, MA: Fall River Firefighters' Museum, Inc., 1986.
- Federal Bureau of Investigation. *Scientific aids in criminal investigations: Suggestions for the handling of physical evidence*. Washington, DC: FBI, 1976.
- Federal Bureau of Investigation. *Temperature line*. Washington, DC: FBI Bomb Data Center, n.d.
- Federal Bureau of Investigation. Bomb Data Center. *1990 bomb summary*. Quantico, VA: Bomb Data Center, 1991.
- Federal Emergency Management Agency. *Arson in America: A profile of 1989 NFIRS*. Arlington, VA: TriData Corporation, 1991.
- Federal Emergency Management Agency. *Overview report to the congress: Arson: Federal role in arson prevention and control*. Washington, DC: Federal Emergency Management Agency, 1979.
- Federal Emergency Management Agency. *Report to the congress; Arson: Federal role in arson prevention and control*. Washington, DC: Federal Emergency Management Agency, 1979.
- Federal Emergency Management Agency. *Report to the congress the national anti-arson strategy: Its progress and status*. Washington, DC: Federal Emergency Management Agency, 1988.
- Federal Emergency Management Agency. *U.S. Fire Administration Catalog*, Washington, DC: Federal Emergency Management Agency, 1980.
- Federal Emergency Management Agency. Urban Consortium for Technology Initiatives. Fire and Disaster. *Arson, a multifaceted problem*. Washington, DC: Public Tehcnology, 1980.
- Federal Emergency Management Agency; U.S. Department of Justice; U.S. Department of Treasury; *U.S. Report to the President on progress in implementation of the National Arson Strategy*. Washington, DC: ACTION, 1980.
- Finney, D.O. *Fire, accidental and intentional: A change of attitude*, David O. Finney, n.d.
- Fire Protection Association. *Incendiary devices: Information and guidance: Fire safety data arson dossier AR4*. London, England: Fire Protection Association, 1990.
- Fire Protection Association. *Investigation of vehicle fires: Fire safety data arson dossier AR5*. London, England: Fire Protection Association, 1991.
- Fire Protection Association. *Prevention and control of arson in school buildings*. London, England: Fire Protection Association, 1989.

- Fire Protection Association. *Prevention and control of arson in warehouse and storage buildings*. London, England: Fire Protection Association, 1988.
- Fire Protection Association of Southern Africa. *Security and arson*. Fire Protection Association of Southern Africa, n.d.
- Fisher, P.E., Hillenbrand, J.T. Suchy. *Arson: America's malignant crime: Final report*. Ohio: Battelle Columbus Labs., 1976.
- Fisher, P.E., Hillenbrand, J.T. Suchy. *Arson information resources. A baseline collection and survey. Final report*, Columbus, OH: Battelle Memorial Institute, 1977.
- Fisher, P.E., L.J. Hillenbrand, J.T. Suchy. *Information resources for a meaningful attack on arson*. Columbus, OH: Battelle Memorial Institute, 1977.
- Fisher, P.E., L.J. Hillenbrand, J.T. Suchy. *Resource assessment for arson education and public awareness: Final report*. Columbus, HO: Battelle Labs, 1975.
- Flair, M.A., et al. *Defenses to the crime of arson*. Emmitsburg, MD: National Fire Academy, 1982.
- Fletcher, K.H. *Arson program presentation*. Emmitsburg, MD: United States Fire Administration, 1980.
- Fontaine, R.R. *Arson prevention: Where do we go from here*. Blytheville Air Force Base, AK: 1979.
- Fontan, E., et al. *Overview of cross training fire investigative personnel*. Emmitsburg, MD: National Fire Academy, 1984.
- Ford, D. *Managing arson control systems: Executive summary*. Washington, DC: National Institute of Justice, 1984.
- Forensic Sciences Foundation Press. *Laboratory proficiency testing program-report no. 14 arson examination*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1976.
- Forney, N. *Factors of mentality and state of mind commonly found in juvenile fire setters. A reading supplement*. Chapel Hill, NC: University of North Carolina at Chapel Hill, n.d.
- Forney, N. *Juvenile firesetters*. Chapel Hill, NC: North Carolina University, 1962.
- Forst, M.L., P.J. Utz. *Problem analysis: Preventing incendiary forestfires in the west*. Berkeley, CA: University of California. Center for the Study of Law and Society, 1978.
- Fox, G., et al. *Was the cigarette the cause*. Emmitsburg, MD: National Fire Academy, 1982.
- Fox, J.A. *Arson measurement, analysis, and prevention: Executive summary*. N.p., n.d.
- Fox, J.A. *Arson measurement, analysis, and prevention*. unpublished.
- Fresno Fire Prevention Bureau. *Juvenile firesetter intervention program*. Fresno, CA: Fresno Fire Prevention Bureau, n.d.
- Freund, R.J. *Basic electricity us related to fire investigation*. Chicago: National Association of Fire Investigators, n.d.
- Fultz, M.L., et. al. *Principles and use of organic vapor detectors in fire scene investigations*. Emmitsburg, MD: National Fire Academy, 1984.
- Gadry, A., et al. *How would you prepare an arson case for trial*. Emmitsburg, MD: National Fire Academy, 1981.
- Ganley, T.B., et al. *Fatal fire investigation*, Emmitsburg, MD: National Fire Academy, 1981.
- Gately, G.S. *Transportation and warehouse arson*. Stoneham, MA: Butterworths Publishers Inc., 1983.
- Gatfield, A.J. *Visit to the United States of America and Canada and a brief study of the fire safety scene*. N.p. 1982.
- Geiselman, E.R., R.P. Fisher. *Interviewing victims and witnesses of crime*. Washington, DC: National Institute of Justice, 1985.
- General Accounting Office. *Are federal programs adequate to deal with arson problems*. Washington, DC: General Accounting Office, 1978.
- Giuffrida, L.O. *Arson: Making the crime expensive for the criminal*. Washington, DC: Federal Emergency Management Agency, 1982.
- Glavin, R.E., et al. *Bifurcated arson investigations. Are they good or bad*. Emmitsburg, MD: National Fire Academy, 1982.
- Glenn, J. *Statement of Senator John Glenn before the Subcommittee on Criminal Justice*. N.p. 1980.
- Gliedman, A. *Analysis of arson in residential buildings*. New York: New York City Department of Housing Preservation and Development, 1983.
- Godek, C., M. Hignett. *Red cup program: Executive report*. New York: New York City. Fire Department, 1981.
- Godfrey, D., et al. *The fire investigator in court*. Emmitsburg, MD: National Fire Academy, 4984.
- Goetz, B. *Arson for profit, parcel clearance and rehabilitation: Background investigation and prediction manual*. San Francisco, CA: United States Fire Administration. Task Force, 1980.
- Goldman, A., F. Logue. *Arson, how much does it cost your city*. N.p. 1981.

- Gould, K.E. *Combined airblast and incendiary effects from nuclear weapons on urban areas: Technical note*. Santa Barbara, CA: General Electric Company, 1975.
- Gray, J.J. *Extinguishing fire setting behavior in children*. James J. Gray, 1971.
- Greenberg, I., P. Olivieri. *Organization, training and information systems for arson investigation in the city of New Haven*. Hartford, CT: Connecticut. Justice Commission, 1977.
- Greenfield, J. *Residential housing markets, fire incidence, and urban arson*. Seattle, WA: Battelle. Human Affairs Research Centers. Law and Justice Study Center, 1981.
- Greenfield, J., et al. *The government executive's guide to arson prevention and control: A handbook on information systems*. Washington, DC: United States Fire Administration. Office of Planning and Education, 1981.
- Greg, E.S. *Arson squad-a program evaluation*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, n.d.
- Grennan, S., et al. *Rural fire investigation*. Emmitsburg, MD: National Fire Academy, 1982.
- Grunden, W., et al. *Bomb scene investigation*. N.p. 1981.
- Grunden, W., et al. *Fire arson investigation*. Emmitsburg, MD: National Fire Academy, 1981.
- Guenther, D.A., et al. *Forensic aspects of automobile fires*. Warrendale, PA: Society of Automotive Engineers, 1981.
- Hall, J.R. *Arson trends and patterns in the U.S. National Fire Protection Association*. Quincy, MA: National Fire Protection Association, 1985.
- Hall, J.R. *Children playing with fire. U.S. experience, 1980-1987*. Quincy, MA: National Fire Protection Association. Fire Analysis and Research Division, 1990.
- Hall, J.R. *U.S. arson trends and patterns - 1986*. Quincy, MA: National Fire Protection Association, 1987.
- Hall, J.R. *U.S. arson trends and patterns - 1987*. Quincy, MA: National Fire Protection Association, 1988.
- Hall, J.R. *U.S. arson trends and patterns - 1988*. Quincy, MA: National Fire Protection Association. Fire Analysis and Research Division, 1989.
- Hammett, T.M. *Toward comprehensive anti-arson programs*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1987.
- Hammett, T.M., et al. *Arson investigation and prosecution: A study of four major American cities*. Washington, DC: National Institute of Justice, 1984.
- Hammett, T.M., R. Ku. *Arson control: A synthesis of issues and strategies based on the Arson Control Assistance Program* Cambridge+ MA: Abt Associates, 1981.
- Haney, J.C. *Upper Arlington Fire Division's approach to juvenile fire setting*. Upper Arlington, OH: Upper Arlington. Fire Division, 1978.
- Hansen, J.A. *Blood for bricks: An analysis of firefighter injuries and deaths resulting from saving property*. Emmitsburg, MD: National Fire Academy, 1991.
- Hanson, R.L. *A position paper on arson investigations: Who holds responsibility*. Robert L. Hanson, 1975.
- Hart, S., et al. *Fire/police arson task force-a practical approach*. N.p. 1983.
- Hartigan, N.F. *Illinois Attorney General arson training and prosecution manual*. Chicago: Illinois Attorney General, n.d.
- Hersch, R.K. *Look at juvenile firesetter programs*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1989.
- Herzog, M.R., et al. *Techniques of an interview*. N.p. 1984.
- Hicks, M.R., et al. *The chemistry of fire*. Emmitsburg, MD: National Fire Academy, 1981.
- Hilbert, G.D., et al., *IAFC/USFA rural arson control project: Final report*. Washington, DC: International Association of Fire Chiefs, 1985.
- Hodges, R.P. *Should the fire department be involved in educational intervention programs for juvenile firesetters*. Emmitsburg, MD: National Fire Academy, 1990.
- Hoffman, D., et al. *Fire cause, Electrical shorts*. Emmitsburg, MD: National Fire Academy, 1982.
- Hollywood, J., et al. *Female firesetters. A new problem*. Emmitsburg, MD: National Fire Academy, 1984.
- Holton, S., S.B. Martin. *Preliminary computer program for estimating primary ignition ranges for nuclear weapons*. San Francisco, CA: Naval Radiological Defense Laboratory, 1965.
- Home Office. *Report of the working group on the prevention of arson*. London, England: Home Office, 1988.
- Hooton, D.B. *A competency survey: A study to determine critical competencies, outputs, and ethical issues*. Vanderbilt University, 1992.

- Hopkins, M.J., et al. *Fire scene responsibility: A guide for fire officers*. Emmitsburg, MD: National Fire Academy, 1983.
- Icove, D.J. *Principles of incendiary crime analysis*. Knoxville, TN: University of Tennessee, 1979.
- Icove, D.J., M.O. Soliman. *Arson information management system: Users manual and documentation*. Washington, DC: International Association of Arson Investigators, 1983.
- Icove, D.J., M.O. Soliman. *Computer-assisted arson information management*. Knoxville, TN: Tennessee University, 1984.
- Icove, D.J., P.T. McGuinness, K.A. Seger. *Rural arson in America and the potential application of a rural arson information management system*. N.p. 1984.
- Illinois Legislative Investigating Commission. *Arson-a report to the Illinois general assembly*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- Illinois. Department of Law Enforcement. Illinois. Office of the State Fire Marshal. *The fire challenge to the local official. A series of regional workshops for fire district trustees*. Springfield, IL: Illinois. Department of Commerce and Community Affairs, 1980.
- Insurance Committee for Arson Control. *Current arson issues. A position paper*. Chicago, 11: Insurance Committee for Arson Control, 1980.
- Insurance Committee for Arson Control. *Current arson issues-u position paper-insurance industry recommendations for effective legislative action*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1983.
- Insurance Committee for Arson Control. *Options for claims training: Training models for the detection, investigation, and litigation*. Chicago: Insurance Committee for Arson Control, n.d.
- Insurance Committee for Arson Control. *State-by-state summary of the arson reporting-immunity laws*. New York: Insurance Committee for Arson Control, 1984.
- Insurance Committee for Arson Control. *Status report on arson reporting-immunity legislation*. New York: Insurance Committee for Arson Control, 1983.
- Insurance Crime Prevention Institute. *Investigating the insurancefraud aspects of suspiciousfires: A handbookfor public arson investigation*. Westport, CT: Insurance Crime Prevention Institute, 1983.
- Insurance Information Institute. *Arson in Texas: A burning problem: And we're trying to stop it*. Austin, TX: Insurance Information Institute, 1979.
- Integrated Systems, Inc. *Directory offederal experts in fire technology and relatedfields: Final report*. Rockville, MD: Integrated Systems, Inc., 1978.
- International Association of Arson Investigators. *Report on the Arson Information Management Systems conference*. Washington, DC: Federal Emergency Management Agency, 1981.
- International Association of Arson Investigators. National Fire Academy. *Juvenile firesetter handbook: Dealing with children ages 7-14*. Washington, DC: Federal Emergency Management Agency, 1984.
- International Association of Chiefs of Police. *Arson investigation-training key*. N.p. 1971.
- International Association of Chiefs of Police. *Auto arson detection-training key*. N.p. 1974.
- International Association of Chiefs of Police. *Bomb incidents-searching buildings-training key*. N.p. 1972.
- International Association of Chiefs of Police. *Entrapment bombing techniques and tactics-training key*. N.p. 1972.
- International Association of Chiefs of Police: National Institute of Law Enforcement and Criminal Justice. *Proposal for a study of arson and anti-arson effects in a selected sample of jurisdictions in the United States*. International Association of Fire Chiefs, 1979.
- International Association of Fire Chiefs. *Adolescent firesetter handbook: Ages 14-18*. Washington, DC: United States Fire Administration, 1988.
- International Association of Fire Chiefs. *A study of arson and anti-arson efforts in a selected sample of jurisdictions in the United States*. Santa Barbara, CA: Ryland Research, 1979.
- International Criminal Police Organization. *Frauds involving arson*. N.p. 1976.
- International Fire Service Training Association. *Ground cover fire fighting practices: 1st edition*. Stillwater, OK: International Fire Service Training Association, 1973.
- Isner, M.S. *Blasting agent explosion, six firefighters killed, Kansas City, MO, November 29,1988*. Quincy, MA.: National Fire Protection Association, 1988.
- Jackson, E., et al. *Profile of a pyromaniac*. Emmitsburg, MD: National Fire Academy, 1981.
- James, J.L., et al. *How would you prepare an arson case for trial*. N.p. 1981,
- Jason, N.H. *Fire research publications, 1976: Final report*. Gaithersburg, MD: National Bureau of Standards, 1977.
- Jason, N.H. *Fire research publications, 1978: Final report*. Gaithersburg, MD: National Bureau of Standards, 1979.

- Johnson, D., et al. *Branch circuits and fire cause investigation in the residential dwelling*. Emmitsburg, MD: National Fire Academy, 1981.
- Johnson, E., M. Kravitz. *Basic sources in criminal justice: A bibliography*. Rockville, MD: National Criminal Justice Reference Service, 1978.
- Jones, J.E. *Statement of the Alliance of American Insurers before the Senate Subcommittee on Criminal Justice*. Washington, DC: Superintendent of Documents, 1990.
- Juhala, J. *Survey of sorption/elution techniques*. N.p., n.d.
- Kaplan, M., et al. *Incendiary devices*. Emmitsburg, MD: Fire Arson Investigation, 1984.
- Karchmer, C., D. Randall. *Compendium of operational and planning guides to white-collar enforcement*. Seattle, WA: Battelle. Human Affairs Research Centers. Law and Justice Study Center, 1978.
- Karchmer, C.L. *Juvenile firesetter and school arson prevention programs*. Hartford, CT: Aetna Life Insurance Company, 1982.
- Karchmer, C.L. *Model curriculum and trainer's guide, The detection and investigation of arson-for-profit schemes*. Washington; DC: Battelle. Human Affairs Research Centers. Law and Justice Study Center, 1981.
- Karchmer, C.L. *Organized economic arson*. Seattle, WA: Clifford L. Karchmer, 1979.
- Karchmer, CL. *Possibilities for preventing revenge: Motivated arson*. Seattle, WA: Battelle. Human Affairs Research Centers. Law and Justice Study Center, 1981.
- Karchmer, C.L. *Preventing arson epidemics: The role of early warning strategies*. Hartford, CT: Aetna Life and Casualty, n.d.
- Karchmer, C.L., K. Robinette. *Juvenile firesetters: An overview of prevention diagnosis, treatment, and intervention programs*. Seattle, WA: Battelle. Human Affairs Research Centers. Law and Justice Study Center, 1981.
- Karter, M.J., Jr. *Fire loss in the United States, 1988*. Quincy, MA: National Fire Protection Association, 1989.
- Kater, J.J., Jr. *U.S. fire experience by region - 1984-1988*. Quincy, MA: National Fire Protection Association, 1989.
- Kelley, J.A., et al. *Fire arson investigation*. Emmitsburg, MD: National Fire Academy, 1981.
- Kennedy, J. *A guide and check-off list for searching the fire or explosion scene*. Chicago: National Association of Fire Investigators, n.d.
- Kennedy, J. *How to conduct a fire investigation*. Chicago: National Association of Fire Investigators, n.d.
- Kennedy, J. *Selection, preparation, and burning of structures for experimental fire investigation purposes*. Chicago: National Association of Fire Investigators, n.d.
- Kennedy, J.M. *Diagramming the fire and explosion scene*. Chicago: National Association of Fire Investigators, n.d.
- Kennedy, J.M. *How to search the fire scene and collect evidence*. Chicago: National Association of Fire Investigators, n.d.
- Kennedy, P.M. *The investigation of mobile home, aircraft, boat and vehicle fires*. Chicago, IL: National Association of Fire Investigators, 1980.
- Kennedy, P.M. *Outline for the investigation of motor vehicle arson*, Chicago: National Association of Fire Investigators, n.d.
- King, C.G. *Detecting arson: What the firefighter should do*. Hartford, CT: Aetna Life Insurance Company, 1982.
- Kinnard, W., et al. *Laboratory services available to the fire/arson investigator*. Emmitsburg, MD: National Fire Academy, 1982.
- Klinck, D.M. *BART transit vehicle full-scale fire test*. Long Beach, CA: Douglas Aircraft Company, 1981.
- Kline, R.M., et al. *Fire/arson investigation diagram/sketch*. N.p. 1984.
- Koepp, D.P., et al. *To interview a fire witness*. Emmitsburg, MD: National Fire Academy, 1981.
- Kolar, W.J., et al. *Responsibility to train firefighters in fire/arson investigation*. Emmitsburg, MD: National Fire Academy, 1981.
- Kraus, D.W., et al. *Proving the corpus delicti*. N.p. 1982.
- Kuchich, R L., et al. *Investigation of kerosene heater incidents*. Emmitsburg, MD: National Fire Academy, 1983.
- Kuchta, J.M., et al. *Ignition and fire suppression in aerospace vehicles: Technical report*. Pittsburgh; PA: Bureau of Mines, 1971.
- Kurmis, R.P., et al. *Public education in arson awareness*. Emmitsburg, MD: National Fire Academy, 1982.
- Kwan, Q.Y., G.C. Denault. *Needs in arson investigation-a survey of arson investigators-equipment systems improvement program*. US Department of Justice, LEAA National Institute of Law Enforcement and Criminal Justice, 1976.

- Lambert, H., et al. *Current procedures regarding fire scene searches and seizures*. Emmitsburg, MD: National Fire Academy, 1984.
- Lane, M., et al. *Public education: A deterrent to arson*. Emmitsburg, MD: National Fire Academy, 1982.
- Larason, J.D., et al. *The investigation of fraud fires*. Emmitsburg, MD: National Fire Academy, 1981.
- Law Enforcement Assistance Administration. *A study to improve the effectiveness of arson control efforts at the local level through an analysis*. Boston, MA: National Fire Protection Association, 1979.
- Law Enforcement Assistance Administration. Arson Control Assistance Program. *Arson control task force: Grant Proposal*. Marietta, GA: Cobb County, Fire Department, 1979.
- Law Enforcement Assistance Administration. Office of Criminal Justice Programs. Arson task force assistance program. *Anti-arson implementation kits*. Emmitsburg, MD: United States Fire Administration, 1980.
- Law Enforcement Assistance Administration. Office of Criminal Justice Programs. *The arson strategy workshop: A summary report, February 1-2, 1979*. Washington, DC: Public Administration Service, 1979.
- Law Enforcement Assistance Administration. Office of Criminal Justice Programs. *National evaluation of the arson control assistance program: Grant proposal*. Washington, DC: American Institutes for Research, 1979.
- Law Enforcement Assistance Administration; National Institute of Law Enforcement and Criminal Justice. *Proposal: A study of arson and anti-arson efforts in selected sample of jurisdictions in the United States*. Worcester, MA: Worcester Polytechnic Institute. Center for Firesafety Studies, 1979.
- Law Reform Commission of Canada. *Damage to property: Arson*. Ontario, Canada: Law Reform Commission of Canada, 1984.
- League of California Cities. Los Angeles County Division. Criminal Justice Planning Unit. *Arson: A status report*. Los Angeles, CA: League of California Cities, 1977.
- Lecomte, E.L. *Report on behalf of the National Committee on Property Insurance to the Property Insurance Subcommittee*. Milwaukee, WI: National Association of Insurance Commissioners, 1979.
- Lentz R.E. *Civil disturbance countermeasures: Chemical*. Aberdeen Proving Ground, MD: Army. Chemical Systems Laboratory, 1983.
- Lesak, D.M., et al. *Professional qualifications for fire/arson investigators*. N.p. 1982.
- Lester, A., et al. *Arson for profit*. Emmitsburg, MD: National Fire Academy, 1981.
- Levin, B. *Psychological characteristics of firesetters*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1976.
- Lima, A.J. *Fire in urban residential neighborhoods: A survey of causes and local efforts at prevention*. Washington, DC: National Fire Prevention and Control, 1977.
- Lima, A.J. *The influence of the non-admitted insurance market on arson-for-profit*. Boston: Alfred J. Lima and Associates, 1980.
- Lima, A.J. *Insurance and tax incentives to arson in economically distressed cities*. Cambridge, MA: Consulting Research, Inc. 1980.
- Lima, A.J. *Insurance underwriting practices: Do they encourage arson-for-profit*. Washington, DC: United States Fire Administration, 1981.
- Los Angeles City Fire Department. Bureau of Fire Prevention and Public Safety. *UCLA operating roomfire*. Los Angeles, CA: Bureau of Fire Prevention and Public Safety, 1990.
- Louge, F. *Elements in formulating an arson strategy: An outline*. N.p. 1981.
- Lowry, W.T., I.C. Stone, J.N. Lomonte. *Scientific assistance in arson investigation-a review of the state of the art and a bibliography*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1977.
- Lucht, D.A. *Arson-a national perspective*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- Lucht, D.A., P.S. Schaanman. *Arson prevention and control strategy*. Washington, DC: National Fire Prevention and Control Administration, 1978.
- Lunsford, R., et al. *Juvenile arsonists*. N.p. 1984.
- Lynch, J.W. *Analysis of the incendiary fire problem in the state of Texas*. Washington, DC: United States Fire Administration, Arson Assistance Program, 1982.
- Lyons, J.W. *Long range planning: The fire scenario approach*. Gaithersburg, MD: National Bureau of Standards, 1976.
- Mach, M.H. *Gas chromatography-mass spectrometry of simulated gasoline residues from suspected arson cases*. El Segundo, CA: Aerospace Corporation, 1976.
- Madger, C., et al. *Major pitfalls in the prosecution of arson*. Emmitsburg, MD: National Fire Academy, 1983.
- Main, T.A., et al. *RICO Statute*. Emmitsburg, MD: National Fire Academy, 1981.

- Marenchin, E., et al. *Arson report writing fire/police responsibilities*. Emmitsburg, MD: National Fire Academy, 1983.
- Marsh, J.L. *Fire problems and plastics*. Chicago: National Association of Fire Investigators, n.d.
- Martin, CA. *Arson: The crime for profit*. Monticello, IL: Vance Bibliographies, 1981.
- Martin, S.B., S.J. Wiersma. *Evaluation of the nuclear fire threat to urban areas*. Menlo Park, CA: Stanford Research Institute, 1973.
- Marye, L. *Arson reduction program-a final evaluation*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- Maryland Criminal Justice Coordinating Council. *Maryland arson control-project summary*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, n.d.
- Maryland. Department of Fire and Rescue Services. Division of Fire Protection. *A proposal for establishing and implementing a comprehensive anti-arson program in Montgomery County*. Montgomery County, MD: Department of Fire and Rescue Services, 1982.
- Massachusetts. Arson Task Force. *Arson for profit*. Boston, MA: Massachusetts. Arson Task Force, 1978.
- Massachusetts, Special Arson commission. *Interim report*. Boston, MA: The Commonwealth, 1977.
- Massachusetts Office of the Lieutenant Governor. *Deliberations of the Massachusetts Arson Task Force*. Washington, DC: U.S. Federal Emergency Management Agency, U.S. Fire Administration, 1980.
- Massachusetts. Department of Corrections. *Adult arson study. Final report*. Boston, MA: Department of Corrections, 1985.
- Mathews, K., M. Smith. *The Seattle arson environment. The 1970's, final report*. Seattle, WA: Washington. Division of State Fire Marshal, 1981.
- Matthews, M., D. Tilton, S. Hintz, eds. *Arson investigation*, Sacramento, CA: California District Attorneys Association, 1980.
- McBride, W., et al. *Is arson preventable. Act or react*. Emmitsburg, MD: National Fire Academy, 1984.
- McGee, J., et al. *A study of incendiarism*. Emmitsburg, MD: National Fire Academy, 1984.
- McGonigle, R.E., et al. *Latent prints speak of arson*, Emmitsburg, MD: National Fire Academy, 1983.
- McGuinness, T. *Organization, staffing, and administration of an arson investigation unit*. Hartford, CT: Aetna Life and Casualty Company, 1983.
- McGuinness, T.P. *Organization, staffing, and administration of an arson investigation unit*. Hartford, CT: Aetna Life Insurance Company, 1982.
- McGuire, M.V., N.D. Sharp. *Arson information management systems: Preliminary technical report*. Seattle, WA: Battelle. Human Affairs Research Centers, Law and Justice Study Center, 1982.
- McGuire, W.B. *The defense of arson in a suit under a fire insurance policy: Discovery and trial preparation*. Newark, NJ: William B. McGuire, 1975.
- McMullin, B.A., et al. *Arson to conceal other crimes*. Emmitsburg, MD: National Fire Academy, 1983.
- McNamara, J.D. *Statement of chief of police of San Jose, CA, Joseph D. McNamara, before the US Senate Permanent Subcommittee*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- McPhee, G.T., et al. *Arson law*. Emmitsburg, MD: National Fire Academy, 1983.
- Merril, B.M. *New Jersey statewide arson strategy, executive summary*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1982.
- Merritts, E.L., et al. *Arson for profit*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- Miller, A.R. *Overview and historical development of the problem of bad faith and punitive damages*. Minneapolis, MN: Robins, Davis and Lyons, 1979.
- Miller, G., et al. *Fire investigators and the media*. Emmitsburg, MD: National Fire Academy, 1983.
- Miller, R.J., et al. *Inspection of the decedent of fatal fire*. Emmitsburg, MD: National Fire Academy, 1982.
- Molinaro, J., et al. *Arson reporting: The immunity law*, Emmitsburg, MD: National Fire Academy, 1982.
- Moll, K.D. *Violence problems affecting fire departments*. Menlo Park, CA: Stanford Research Institute, 1972.
- Monroe County. County Arson Control Committee: Monroe County. Legislature; New York. Office of Fire. *Arson control plan. Monroe County*, New York. Rochester, NY: Monroe County. Office of Public Safety and Judicial Services, 1981,
- Moore, G.B. *Neighborhood AIMS project: Interim report of accomplishments*. Washington, DC: COSMOS Corporation, 1985.
- Moreland, J.A. *Address by Joseph A. Moreland, Chief Counsel, National Fire Prevention and Control Administration*, N.p. 1978.

- Morgan, J.F. *The county clerk's office and the fire/arson investigator*. Montour Falls, NY: New York State Academy of Fire Science, 1981.
- Morra, F. *On the costs and benefits of arson intervention*. Frank Morra and Associates, Inc., 1979.
- Morra, F. and Associates Inc. *Study of predicted cost and impact analysis for USFA/FEMA arson reduction initiatives*. Washington, DC: Frank Morra and Associates, Inc., 1980.
- Moussa, N.A J.J. Murphy, Jr. *Fire/explosion protection characterization and optimization: Phase 1: Data analysis and documentation*. Winchester, MA: BlazeTech Corporation, 1991.
- Murch, R.M. *Testing of mattress materials under simulated arson conditions*. Columbia, MD: W.R.-Grace and Company. Washington Research Center. Research Division, 1980.
- Murphy, H.H. *Vandals, arsonists, bombs, dogs*. Arlington, VA: Erick Document Reproduction Service, 1973.
- Nall, J.E. *Preparation of firemen and other witnesses prior to the trial*. Chicago, IL: National Association of Fire Investigators, n.d.
- National Association of Insurance Commissioners. *NAIC anti-arson taskforce report, December 1982*. Brookfield, WI: National Association of Insurance Commissioners, 1982.
- National Clearinghouse for Criminal Justice Information Systems; Bureau of Justice Statistics. *Arson: The prevention chain, a special report*. Sacramento, CA: Search Group Inc., 1980.
- National Committee on Property Insurance. *Juvenile firesetter intervention program: A summary of available resources*. Boston: National Committee on Property Insurance, 1985.
- National Concrete Masonry Association. *Fighting arson with fire-resistive construction*. Herndon, VA: National Concrete Masonry Association, n.d.
- National Defense Research Committee. *Fire warfare: Incendiaries and flame throwers: Summary technical report of division 11, NDRC*. Washington, DC: National Defense Research Committee, 1960.
- National Fire Academy. *National Fire Academy Fire/Arson Investigation Research Papers* Emmitsburg, MD: National Fire Academy, 1984.
- National Fire Prevention and Control Administration. *Arson, discussion paper. Fiscal year 1980*. Washington, DC: National Fire Prevention and Control Administration, 1978.
- National Fire Prevention and Control Administration. *Statement of work: Arson prevention and control strategy*. Washington, DC: National Fire Prevention and Control Administration, 1977.
- National Fire Protection Association. *Prisons: Case histories*. Quincy, MA: National Fire Protection Association, 1990.
- National Institute of Justice. *Managing arson control systems: A study of arson and anti-arson efforts*. Washington, DC: International Association of Fire Chiefs, 1982.
- National Institute of Justice. *Portable organic vapor detectors*. Washington, DC: National Institute of Justice, 1984.
- National Institute of Justice. *A study of arson adjudications: Preparation, prosecution, and disposition of cases*. Washington, DC: National Institute of Justice, 1981.
- National Institute of Justice/National Criminal Justice Reference Service. *Arson burns us all-a selected bibliography*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, n.d.
- National Institute of Law Enforcement and Criminal Justice. Office of Development, Testing and Disse. *Arson prevention and control: Program model*. Cambridge, MA: Abt Associates, 1980.
- National League of Cities. *City of Phoenix arson task force overview*. Phoenix, AZ: The City of Phoenix, 1978
- National Urban Coalition. *National anti-arson training program*. Washington, DC: National Urban Coalition,, 1982.
- Naval Research Laboratory: Naval Ordnance Laboratory; Naval Weapons Center. *Toxicity and fire hazards associated with shipboard materials: NRL memorandum report*. China Lake, CA: Naval Weapons Center, 1967.
- Neal, R.F., et al. *Police/fire team approach to fire investigation*. N.p. 1984.
- Neeman, G.K., et al. *How to prepare a fire investigation report*. Emmitsburg, MD: National Fire Academy, 1981.
- New Jersey State Legislature Office of Legislative Services. *Problems of arson and fire setting committed by juveniles. Public hearing before Senate Committee*. Rockville, MD: National Institute of Justice/ National Criminal Justice Reference Service Microfiche Program, 1987.
- New Jersey. Arson Task Force; New Jersey. Division of State Police. *Development of a New Jersey strategy for arson control: The report of the Arson Task Force*. Trenton, NJ: New Jersey. Department of Law and Public Safety. Division of Criminal Justice, 1979.

- New Orleans Mayor's Criminal Justice Coordinating Council. *Assessment of arson in New Orleans*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1979.
- New Orleans Office of ,Criminal Justice Coordination. *Arson investigation in New Orleans-the development of a coordinated effort*. N.p 1984.
- New York City Arson Strike Force. *Arson-for-profit information center: Final review and evaluation report*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- New York City Police Department. *The history of the New York City Bomb Squad*. New York: New York City Police Department, 1989.
- New York State Academy of Fire Science. *Interviewing techniques for the fire investigator: Selected references*. Montou Falls, NY: New York State Academy of Fire Science, n.d.
- New York State Academy of Fire Science. *The juvenile firesetter: Selected references*. Montour Falls, NY: Academy Library; n.d.
- New York State Academy of Fire Science. *Photography and video for the fire/arson investigator: Selected references*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1987,
- New York State Arson Board. *A position paper by the New York State Arson Board: A review and recommendations*. N.p. 1991.
- New York State Arson Board/Koepsell Associates. *Workshop synopsis: Governor's conference on arson, February 3-4, 1986*. New York: New York State Arson Board, 1986.
- New York State Department of State. *New York State's action against arson*, Albany, NY: New York State Department of State, 1982.
- New York State Division of Criminal Justice Service, Bureau of Criminal Justice Statistical Services. *Summary of arson arrests for New York State from 1985-1989, with dispositions, conviction rates;and*. Albany, NY: Bureau of Criminal Justice Statistical Services, n.d.
- New York State Library. *Topic: Arson*. Albany, NY: New York State Library, 1982.
- New York State Office of Fire Prevention and Control. *Burn injury reporting system '87*. Albany, NY: New York State Office of Fire Prevention and Control, n.d.
- New York State Office of Fire Prevention and Control. *Burn injury reporting system: Six month preliminary report*. Albany, NY: New York State Office of Fire Prevention and Control, 1986.
- New York State Office of Fire Prevention and Control. *Memorandum on interpretaton of the NYS statute on 1st degree arson*. Albany: New York State Office of Fire Prevention and Control, 1985.
- New York State Office of Fire Prevention and Control. *1986-1987 arson grant awards*. Albany, NY: New York State Office of Fire Prevention and Control, 1986.
- New York State-Office of Fire Prevention and Control. *Physical evidence in fire/arson investigations*. Albany, NY: New York State Office of Fire Prevention and Control, 1984.
- New York State Office of Fire Prevention and Control. *Statistical summary of injuries to fire service personnel involved in fire investigation activities*. Albany, NY: New York State Office of Fire Prevention and Control, 1988.
- New York State. Department of State. Office of Fire Prevention and Control. *Firesafety: For the rest of your life: Secondary schoolfire safety and arson resource*. N.p. 1982.
- New York. Aetna Life and Casualty. *Landlord contact program*. New York: Arson Strike Force, 1981.
- New York. Arson Board. *A review of New York state's arson program 1979-1983: Report to the New York State Arson Board*. Albany, NY: New York. Office of the Fire Administrator, 1984.
- Newman, J.H. *Instructions on how to testify at depositions and in the court room*. Chicago: National Association of Fire Investigators, n.d.
- Niagara Falls Fire Department. *Fire investigation and arson awareness program*. Niagara Falls, NY: Niagara Falls Fire Department n.d.
- Nyerick, P.J., et al. *increase in arson*. Emmitsburg, MD: National Fire Academy, 1983.
- O'Connor, D.G., et al. *Identifying revengefires*. Emmitsburg, MD: National Fire Academy, 1982.
- O'Neill, J.H., D.E. Sommers, E.B. Nicholas. *Aerospace vehicle hazard protection test program. Detectors: materials; fuel vulnerability. Final report*. Atlantic City, NJ: Federal Aviation Administration, 1973.
- Office of Civil Defense. *Digital display aerial survey meter*. Newark, NJ: Weston, Instruments, Inc., 1964.
- Office of Fire Prevention and Arson Control; United States Fire Administration. *La curiosidad infantil causa incendios*. Washington, DC: United States Fire Administration, n.d.
- Ojeda, R.S., et. al. *Arson law*. N.p. 1983.

- Oklahoma Crime Commission. *Arson in Oklahoma*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1979.
- Oliva, M.J., et al. *Sex crimes related to arson*. N.p. 1982.
- Oney, R., et al. *Functions of an arson taskforce*. Emmitsburg, MD: National Fire Academy, 1983.
- Oregon State Legislature Legislative Interim Committee on Judicial Administration. *Report of the Legislative Interim Committee on the Judiciary Insurance and Arson*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1980.
- Oregon Office of State Fire Marshal. *Taskforce on fire cause and arson investigation: Report 1*. Salem, OR: Office of State Fire Marshal, 1978.
- Oregon Office of State Fire Marshal. *Task force on fire cause and arson investigation: Report 2*. Salem, OR: Office of State Fire Marshal, 1978.
- Ottawa Defense Research Board: Swanson and Associates. *Incendiary effects of nuclear weapons. A critical review and guide*, Ottawa, Ontario, Canada: Emergency Measure Organization, 1964.
- Padelford, L.W., et al. *Burning down the house. Ignition devices*. Emmitsburg, MD: National Fire Academy, 1984.
- Padilla, CF., et al. *Vehicle fires: Investigations*. N.p. 1982.
- Parker, W.J. *Thermal hardening considerations pertaining to residential areas*. San Francisco, CA: Naval Radiological Defense Laboratory, 1966.
- Paxson, C.H. *Modifying incident command into other fire department operations. Investigation command system development*. Emmitsburg, MD: National Fire Academy, 1990.
- Pelletier, E.A., et al. *Incendiary devices*. N.p. 1984.
- Piester, D.D., et al. *Evidence: Fire scene to courtroom*. Emmitsburg, MD: National Fire Academy, 1984.
- Pisani, A. *A study of government-subsidized housing rehabilitation programs and arson*. Washington, DC: National Institute of Justice, 1984.
- Pisani, A.L. *Adult firesetting behavior: A typology*. New York: John Jay College of Criminal Justice, 1981.
- Pisani, A.L. *Arson decision-a mini study on the strike forces' proposals to coordinate the arson effort*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche program, n.d.
- Provencher, R.G. *Arson '76*. Boston, MA: Society of Fire Protection Engineers, n.d.
- Pyle, J. *Testimony of Assistant United States Attorney John Pyle to be given before the Senate Judiciary Committee*, Cleveland, OH: Department of Justice, Northern District of Ohio, 1980.
- Rallis, C., et al. *Major pitfalls in the prosecution of arson*. N.p. 1983.
- Rausand, M. *Reliability of fire and gas detector systems: Safety versus production regularity*. Trondheim, Norway: Selskapet for Insuttriell og Teknisk Forskning, 1986.
- Rechtschaffen, H., et al. *Arson rings*, Emmitsburg, MD: National Fire Academy, 1982.
- Rhode Island. Office of the State Fire Marshal, *Arson in Rhode Island: A summary statistical report of this part 1 crime with a comparison of year 1*. Providence, RI: Rhode Island. Governor's Justice Commission Statistical Analysis Center, 1981.
- Rice, M.P., K.A. Seger. *Arson information management systems: 1984 project report and users manual*. N.p. 1984.
- Riley, V.L. *Fire and arson investigator safety: The missing information*, Emmitsburg, MD: National Fire Academy, 1990.
- Riopelle, P.J. *Growing problem of arson-special report*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- Riopelle, P.J. *Wisconsin: The growing problem of arson-special report*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- Rodems, T.J. *Electrical fires: Investigation and analysis*. JDR Systems Corp, 1988.
- Roehl, J.A., R.F. Cook. *Evaluation of the urban crime prevention program-final report*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1983.
- Romero, C.P., et al. *Basics of interviewing and interrogation*. Emmitsburg, MD: National Fire Academy, 1982.
- Ross, W.R., et al. *Forming an arson taskforce*. Emmitsburg, MD: National Fire Academy, 1981.
- Rottenberg, S. *Social response to incendiary fire: Equipment systems improvement program*. Rockville, MD: National Criminal Justice Reference Service, 1976.
- Rottenburg, S. *Equipment systems improvement program: The social response to incendiary fire*. El Segundo, Ca: Aerospace Corporation. Law Enforcement Development Group, 1976.
- Rouse, W.V. *La Raza en accion local, San Francisco, California*. N.p. 1980.
- Rouse, W.V. *Arson as a key issue in financially depressed cities*. St. Louis, MO: Poole Reporting, Inc, 1980.
- Routley, J.G. *Arson fire destroys toy warehouse for \$12 million loss, Grandview, MO*. Arlington, VA: TriData Corporation, 1989.

- Routley, J.G. *Detroit warehouse fire claims 3 firefighters*. Arlington, VA: TriData Corporation, 1988.
- Rowe, F.M., et al. *Fire death investigation-preparation and cooperation*. N.p. 1984.
- Rowland, D.F., et al. *The juvenile firesetter (age 4-11)*. Emmitsburg, MD: National Fire Academy, 1982.
- Russ, C.P. Jr. *Arson: Present shock!* N.p. 1983.
- Rutherford, M.J., et al. *Forming an arson taskforce*. N.p. 1981.
- Saily, M. *The Seattle Fire Department: A comprehensive approach to fire prevention through public education*. Seattle, WA: Seattle. Fire Department, 1980.
- Saily, M. *Urban fire education: Seattle case study*. Washington, DC: United States Fire Administration, 1980.
- Sam Houston State University. Criminal Justice Center. *Arson information center: A concept paper*. Huntsville, TX: Criminal Justice Center, 1980.
- San Diego Fire Department. Metro Arson Strike Team. *Metro Arson Strike Team policies and procedures*. San Diego, CA: Fire Department, 1983.
- San Francisco (CA) Fire Department Arson Task Force. *The San Francisco arson early warning system: Summary of research, 1979-1981*. N.p. 1981.
- San Francisco Public Safety Division Data Processing Center. *San Francisco Fire Department's automated arson investigation system*. San Francisco, CA: N.p. 1979.
- Saylor, J.N., et al. *Overview of cross training fire investigative personnel*. N.p. 1984.
- Schenectady County Office of the Fire Coordinator. *Arson recognition handbook*. Schenectady County Office of the Fire Coordinator, n.d.
- Schmidt, H.H. *Chasing paper: Research manual for arson investigators*. Boston, MA: First Security Services Corporation, 1979.
- Schmidt, H.H. *Research manual for arson investigators: Chasing paper*. Cambridge, MA: N.p. 1979.
- Schonrock, D. *Considering all damage factors of modern incendiary materials during training*. N.p. 1973.
- Schuman, C.K. *Testifying in court: The final phase of arson detection*. Thief River Falls, MN: C.K. Schuman, 1988.
- Scofield, R.E. *Chemical incendiaries: The use of oxidizers as accelerants*. Chicago: National Association of Fire Investigators, 1984.
- Seattle Fire Department. *Seattle arson taskforce. Implementation program*. Seattle, WA: Seattle. Fire Department, 1976.
- Seattle Fire Department. *Seattle-arson task force-implementation program*. N.p. 1978.
- Shapiro, J.M. *Doubletree Hotel fire, New Orleans, LA*. Arlington, VA: TriData Corporation, 1988.
- Siegelman, E.Y., W.S. Folkman. *Youthful firesetters: An explanatory study in personality and background*. Rockville, MD: National Criminal Justice Reference Service, 1971.
- Siverls, R. *Anti-arson skit: A play*. New York: City of New York Arson Strike Force, 1980.
- Skorski, R., et al. *Recent trends in arson*. Emmitsburg, MD: National Fire Academy, 1984.
- Smith, C.P. *Preliminary assessment of arson and the juvenile justice system*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1979.
- Smith, L.J., et al. *Wasflamable liquid used as an accelerant*. N.p. 1983.
- Southampton Town, Department of Fire Prevention. *Southampton Town bomb threat manual*, Southampton, NY: Department of Fire Prevention, n.d.
- Speed, J., et al. *Functions of an arson taskforce*. N.p. 1983.
- Spreyer, R., et al. *Recent trends in arson*. N.p. 1984.
- Springfield, Police Department. *Concept paper for arson and the police crime analysis unit*. Springfield, MO: Police Department, 1979."
- Stambaugh, H. *The Grems Case: How an arson case was solved and prosecuted in Colorado*. Emmitsburg, MD: U.S. Fire Administration, 1991.
- State Farm Fire and Casualty Company. *Iceberg crime: What police officers should know about arson*. Bloomington, IL: State Farm Fire and Casualty Company, n.d.
- State Farm Fire and Casualty Company. *Touched off by human hands*. Bloomington, IL: State Farm Fire and Casualty Company, n.d.
- Stickney, W.C. *Fire tracks: The vital factors of fire cause investigation*. N.p. 1975.
- Stidham, H., et al. *The arson problem: An overview*. Emmitsburg, MD: National Fire Academy, 1984.
- Stiefel, W.S. *Use of decision analysis in arson program planning*. Washington, DC: Center for Fire Research, 1982.
- Stinnett, W., et al. *Arson problem - an overview*. N.p. 1984.
- Stocker, A., et al. *Latent prints speak of arson*. N.p. 1983.

- Strait, W.H., et al. *Responsibility to train firefighters in fire/arson investigation*, N.p. 1981.
- Stoother, R. *Attacking arson: The taskforce approach*. Washington, DC: Federal Emergency Management Agency, 1981.
- Strother, R. *Statement of Richard Strother, associate administrator, U.S. Fire Administration, Federal Emergency*. Washington, DC: Superintendent of Documents, 1980.
- Suchy, J.T. *Arson-America's malignant crime-final report*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1976.
- Syracuse Fire Department. *Arson: Some problems and solutions*. Syracuse, NY: Syracuse Fire Department, n.d.
- Taranto, R., et al. *Arson rings*. N.p. 1982.
- Tate, J. et al. *Rural fire investigation*. N.p. 1982.
- Tauber, S.J. *Arson control: A review of the state of the art with emphasis on research topics*. Washington, DC: Law Enforcement Assistance Administration, 1979.
- Tauber, S.J. *Arson control: A review of the state of the art with emphasis on research topics*. Chevy Chase, MD: Tauber, S.J., 1978.
- Taylor, R.L. *Who should investigate an arson fire*. Emmitsburg, MD: National Fire Academy, 1984.
- A Texas Advisory Council on Arson, Incorporated. *Intentionalfire: Arson control imperatives for Texas*. Dallas, TX: Texas Advisory Council on Arson, Incorporated, 1983.
- Thaman, R.N. *Manual for the operation of a portable gas chromatograph*. Columbus, OH: Systems Engineering Associates, n.d.
- Thorwald, J.N., et al. *Law enforcement officer apathy towards arson investigation*. Emmitsburg, MD: National Fire Academy, 1984.
- Tipton, H.D. *Testimony of Howard D. Tipton, administrator, National Fire Prevention and Control Administration*. N.p. 1977.
- Tri-Data Corporation. *View of management in fire investigation units: Issues and trends for the 90's*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1990.
- Troske, L. *Summary of testimony by LeRoy Troske before the Subcommittee on Criminal Justice of the Committee*. St. Paul, MN: St. Paul Fire and Marine Company, 1980.
- United States Bureau of Alcohol, Tobacco and Firearms. *Arson enforcement accomplishments, 1982-1989*. Bureau of Alcohol, Tobacco and Firearms, 1989.
- United States Bureau of Alcohol, Tobacco and Firearms. *ATF labs in action*. Washington, DC: Bureau of Alcohol, Tobacco and Firearms, 1976.
- United States Bureau of Alcohol, Tobacco and Firearms. *Bomb threats and physical security planning*. Washington, DC: Bureau of Alcohol, Tobacco and Firearms, 1987.,
- United States Bureau of Alcohol, Tobacco and Firearms. *Compliance operations: Audit staff, financial investigative assistance*. Bureau of Alcohol, Tobacco and Firearms, 1989.
- United States Bureau of Alcohol, Tobacco and Firearms. *Explosives incidents report*. Washington, DC: Bureau of Alcohol, Tobacco and Firearms, 1980.
- United States Bureau of Alcohol, Tobacco and Firearms. *Explosives tagging: Scientific "finger printing" for law enforcement*. Washington, DC: Bureau of Alcohol, Tobacco and Firearms, 1979.
- United States Bureau of Alcohol, Tobacco and Firearms. *Fire scene guide and checklist*. Bureau of Alcohol, Tobacco and Firearms, 1987.
- United States Central Intelligence Agency. *Improvised sabotage devices*. Washington, DC: CIA, n.d.
- United States Central Intelligence Agency. *Improvised weapons of the American underground*. Washington, DC: CIA, n.d.
- United States Comptroller General. *Are federal programs adequate to deal with arson problems?*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- United States Congress. House Committee on Appropriations. *Arson problems in New York, City. Hearing before a House Subcommittee of the Committee on Appropriations*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1979.
- United States Congress. House of Representatives. *Federal fire prevention and control act of 1974, amendments*. N.p., n.d.
- United States Congress. Senate Committee on Governmental Affairs. *Arson-for-profit. Its impact on states and localities*. Washington, DC: Superintendent of Documents GPO, 1978.
- United States Congress. Senate Permanent Subcommittee on Investigations. *Arson-for-hire. Hearings before the permanent Senate Subcommittee on Investigations, 95th Congress*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.

- United States Congress. Senate Permanent Subcommittee on Investigations. *Role of the insurance industry in dealing with arson-for-profit, staff study*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1979.
- United States Congress. Senate Subcommittee on Criminal Laws and Procedures. *Arson for profit. Hearing before the Senate Subcommittee on Criminal Justice*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1980.
- United States Congress. Senate Subcommittee on Juvenile Justice. *Phenomenon of juvenile firestarters. Hearing before the Senate Subcommittee on Juvenile Justice*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1985.
- United States Department of Agriculture. *Strategies for reducing incendiary fire occurrence in the south*. Washington, DC: Department of Agriculture, 1976.
- United States Department of Commerce. National Bureau of Standards Center for Fire Research. *Use of decision analysis in arson program planning*. Springfield, VA: National Technical Information Service, 1982.
- United States Department of Justice. Bureau of Justice Assistance. *Arson prevention and control*. N.p. 1985.
- United States Department of Justice. National Institute of Justice. *Managing arson control systems-executive summary*. Rockville, MD: Superintendent of Documents GPO, 1984.
- United States Department of Justice. *NIJ standard for portable organic vapor detectors*. Gaithersburg, MD: National Bureau of Standards, 1984.
- United States Department of the Treasury. Bureau of Alcohol, Tobacco and Firearms. *Explosives incidents 1979-annual report by the Bureau of Alcohol, Tobacco and Firearms*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1980.
- United States Department of the Treasury. Bureau of Alcohol, Tobacco and Firearms. *Explosives incidents, 1981-6th report by the Bureau of Alcohol, Tobacco and Firearms*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1982.
- United States Environmental Protection Agency. *Tire fire investigation, Everett, WA, September 25-October 10, 1984*. Seattle, WA: Environmental Protection Agency, 1984.
- United States Federal Emergency Management Agency. *National anti-arson strategy-its progress and status-a report to the Congress*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1982.
- United States Federal Emergency Management Agency. *A report submitted to the Congress, the national arson strategy: Its progress and status*. Washington, DC: Federal Emergency Management Agency, 1982.
- United States Federal Emergency Management Agency. U.S. Fire Administration. *Attacking arson - the task force approach*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- United States Fire Administration. *Arson, America's malignant crime. Summary conference proceedings*. Washington, DC: United States Fire Administration, 1983.
- United States Fire Administration. *Arson early warning: A technical report*. Boston, MA: Urban Education Systems, Inc., 1980.
- United States Fire Administration. *Arson pilot city program. February 13 - August 14, 1981*. Washington, DC: United States Conference of Mayors, 1981.
- United States Fire Administration. *Arson prosecution: issues and strategies*. Washington, DC: Federal Emergency Management Agency, 1988.
- United States Fire Administration. *The Arson Resource Center*. Emmitsburg, MD: USFA, 1987.
- United States Fire Administration. *Arson taskforce assistance project 1980: Final report to the United States Fire Administration*. Washington, DC: United States Conference of Mayors, 1981.
- United States Fire Administration. *Arson: The federal role in arson prevention and control- A report submitted to congress*. Washington, DC: United States Fire Administration, 1979.
- United States Fire Administration. *Child (preadolescent)firesetter handbookages 7-13*. Washington, DC: International Association of Fire Chiefs, 1988.
- United States Fire Administration. *Establishing an arson strike force*. Washington, DC: International Association of Fire Chiefs, 1985.
- United States Fire Administration. *Establishing an arson strike force*. Washington, DC: International Association of Fire Chiefs, 1989.
- United States Fire Administration. *Field focus for the 80's. USFA technical programs in the news*, Washington, DC: United States Fire Administration, 1980.
- United States Fire Administration. *Fire and arson investigators' field index directory*, San Diego, CA: Pacific Science and Engineering Group, Inc., 1990.

- United States Fire Administration. *Juvenile firesetter counseling program*. Washington, DC: American Institute for Research, 1980.
- United States Fire Administration. *Rural arson control study*. Washington, DC: International Association of Fire Chiefs, 1985.
- United States Fire Administration. *Rural arson control study*. Washington, DC: International Association of Fire Chiefs, 1989.
- United States Fire Administration. *United States arson profile 1989*. U.S. Fire Administration/National Fire Data Center, n.d.
- United States Fire Administration. *A view of management in fire investigation units - issues and trends for the 90's*. Arlington, VA: TriData, 1990.
- United States Fire Administration. Office of Education and Planning. *Arson early warning: A technical report: Appendices*. Boston, MA: Urban Education Systems, Inc., 1980.
- United States Fire Administration. Office of Planning and Education. *The handbook for arson prevention and control programs*. Washington, DC: American Institute for Research, 1980.
- United States Fire Administration. Office of Planning and Education. *Interviewing and counseling juvenile firesetters: The child under seven years of age*. Washington, DC: United States Fire Administration, 1980.
- United States Forest Service. *Wildfire cause investigation*. Washington, DC: USDA Forest Service, n.d.
- United States General Accounting Office. *Are federal programs adequate to deal with arson problems*. Washington, DC: General Accounting Office, 1978.
- United States General Accounting Office. *Arson-for-profit: More could be done to reduce it*. Washington, DC: General Accounting Office, 1978.
- United States House. Committee on the Judiciary. *Anti-arson act of 1982*. Washington, DC: Committee on the Judiciary, 1982.
- United States Office of Technology Assessment. *Taggants in explosives*. Rockville, MD: National Criminal Justice Reference Service, 1980.
- United States Senate. *Anti-arson act of 1979. Hearings before the subcommittee on intergovernmental relations*. Washington, DC: U.S. House of Representatives, 1979.
- United States Senate. *Anti-arson act of 1981: 97th congress. 1st session*. Washington, DC: U.S. Senate, 1981.
- United States Senate. *Arson in America. 96th Congress: 1st session Report of the committee on Governmental Affairs*. Washington, DC: U.S. Senate, 1979.
- United States Senate. U.S. House of Representatives. *Anti-arson act of 1979. 96th Congress. 1st Session*. Washington, DC: U.S. House of Representatives, 1979.
- United States Senate. U.S. House of Representatives. *Arson control assistance act of 1977. 95th Congress. 1st Session..* Washington, DC: U.S. House of Representatives, 1977.
- United States Senate. U.S. House of Representatives. *To require the Federal Bureau of Investigation to classify the offense of arson as a part I offense*. Washington, DC: U.S. House of Representatives, 1979.
- University of Minnesota Fire Center. *Arson, firesetting and fire investigation: Library holdings*. Minneapolis, MN: University of Minnesota, 1983.
- Urban Education Systems, Inc. *Legislation: A description of different kinds of legislation, which, enacted can help prevent arson*. Boston: Urban Educational Systems, 1982.
- Urban Educational Systems. *Fire insurance: Types of fire insurance, insurance risks, the underwriting process, the claims process*. Boston: Urban Educational Systems, 1983.
- Urban Educational Systems. *NAPAC-final report*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- Urban Educational Systems. *Property research*. Boston: Urban Education Systems, n.d.
- Vernon, R.F. *The dimensions of juvenile arson and false fire alarms for the urban areas of San Diego*. Washington, DC: Department of Housing and Urban Development, 1976.
- Vina, P.F., et al. *Juvenile firesetter (age 4-11)*. N.p. 1982.
- Voorhees, K.J., R. Tsao. *Characterization of aerosols from fires: Summary of year 2 effort*. Golden, CO: Colorado School of Mines, n.d.
- Vreeland, R.G., M.B. Waller. *Personality theory and firesetting: An elaboration of a psychological model*. Washington, DC: Center for Fire Research, 1980.

- Vreeland, R.G., M.B. Waller. *The psychology of firesetting: A review and appraisal*. Chapel Hill, NC: University of North Carolina, 1978.
- Washington Insurance Council. *Arson awardprogram*. Seattle, WA: Washington Insurance Council, 1979.
- Weber, J.A., et al. *Fatalfire investigation*. N.p. 1981.
- Webster, S.H., K.E. Mathews. *Survey of arson and arson response capabilities in selected jurisdictions*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1979.
- Weisman, H.M. *A report to the Congress: The national anti-arson strategy: Its progress and status*. Washington, DC: Federal Emergency Management Agency, 1982.
- Weisman, H.M., N. Stone. *Arson resource directory*. Washington, DC: Fire Administration, 1980.
- Weisman, H.M., N. Stone. *Arson resource directory. Draft*. Washington, DC: Federal Emergency Management Agency, 1980.
- Wells, K.D., et al. *Profile of a pyromaniac*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1981.
- WGBH Education Foundation. *Why America burns*. Boston, MA: WGBH Educational Foundation, 1981.
- Whirlpool Corporation. *Spontaneous combustion of vegetable oils on fabrics*. Whirlpool Corporation, 1991.
- Whitaker, T.L. *Fire stop of Indianapolis: A juvenile firesetter program*. Emmitsburg, MD: National Fire Academy, 1990.
- White, K.H. *Arson report: Boston '77 -Approaches/solutions*. N.p. 1977.
- Wiklund, N. *Motives for arson: Gain-oriented and reactive fire-setting*. Stockholm: Swedish Fire Protection Association, 1987.
- Wisconsin Department of Justice, Criminal Investigation Division, Arson Bureau. *Wisconsin Arson Bureau-annual report*, 1978. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, n.d.
- Wisconsin Department of Justice Criminal Investigation Division Arson Bureau. *Wisconsin Arson Bureau - annual report*, 1979. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, n.d.
- Wisconsin Department of Justice Criminal Investigation Division Arson Bureau. *Wisconsin Arson Bureau-annual report*, 1980. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, n.d.
- Wisconsin Department of Justice Criminal Investigation Division Arson Bureau. *Wisconsin Department of Justice, Division of Criminal Investigation, Arson Bureau-annual report*, 1976. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1977.
- Wisconsin Department of Justice Criminal Investigation Division Arson Bureau. *Wisconsin Department of Justice, Division of Criminal Investigation, Arson Bureau-annual report*, 1977. Rockville, MD: National Institute of Justice/National Criminal Justice reference Service Microfiche Program, 1978.
- Witmer, D.L. *The effects of the FAIR plan on urban areas: An incentive to development or destruction*. State College, PA: Witmer, D.L., 1980.
- Yates, J. *Six firefighter fatalities in construction site explosion, Kansas City, MO, November 29, 1988*. Arlington, VA: TriData Corporation, 1989.
- Zanger, M. *Economic intelligence and arson-for-profit: The example of real estate: Discussion draft*. Boston, MA: Boston, Fire Department, 1980.

PROCEEDINGS

- Balkon, J. *Investigation of the role of forensic toxicology/pathology and the forensic toxicologist in fire*. Society of the Plastics Industry, Inc., SPI Annual Technical/Marketing Conference, 31st October 18-21, 1988.
- Barracato, J.S. *Arson Problem*. Aetna Life and Casualty, Hartford CT, International Fire Protection Organizations Conference, September 15-18.
- Battelle Memorial Institute; Insurance Committee for Arson Control. *Arson, Ten years later*. Battelle Memorial Institute, Insurance Committee for Arson Control, December 1986. .
- International Association of Arson Investigators. *Proceedings*. Marlboro, MA: IAAI, 1966.
- International Association of Arson Investigators. *Proceedings*. Marlboro, MA: IAAI, 1972.
- International Association of Arson Investigators. *Proceedings*. Marlboro, MA: IAAI, 1975.

- International Association of Arson Investigators. *Proceedings*. Marlboro, MA: IAAI, 1976.
- International Association of Arson Investigators. *Proceedings*. Marlboro, MA: IAAI, 1977.
- International Association of Arson Investigators. *Proceedings*. Marlboro, MA: IAAI, 1978.
- International Association of Arson Investigators. *Proceedings*. Marlboro, MA: IAAI, 1979.
- International Fire Protection Engineering Institute, *4th International Fire Protection Engineering Institute*, Brunnen, Switzerland, February 26-March 10, 1984.
- National Academy of Sciences. *Committee on Fire research. Transcript of proceedings. July 29, 1975*. Bowers Reporting Company, Falls Church, VA, 1975. Bowers Reporting Company.
- National Legislative Conference on Arson*. Dallas, TX, December 2-4, 1981.
- National Volunteer Fire Council, International Association of Fire Chiefs. *National Workshop for Volunteer Fire Service*. Proceedings of the Stonebridge Conference, Snowmass, CO, August 17-19. Ryland Research Inc..
- Palmer, R.D., ed. *Match wits with today's arsonists*. University of Florida and Florida State Fire College, 14th Annual Seminar in Arson Detection and Investigation. Jacksonville, FL, August 5-9, 1968.
- University of Florida and *Florida State Fire College*. *Fifth Annual Arson Detection and Investigation Seminar*, Daytona Beach, FL, August 3-7, 1959.

CHAPTERS

- Aklyama, Y., P. Pfeiffer. Arson, a statistical profile. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Allen, K., K. Bett. A study of vehicle fires of known ignition source part 1. In *Selected Articles*, edited by Linda Koch: IAAI, 1992.
- American Insurance Association Property Claim Services. Arson insurance investigation. In *Criminal and Civil Investigation*, edited by Joseph J. Grau and Ben Jacobson New York: McGraw-Hill', 1981.
- Arson Committee American Bar Association. Criminal and civil cases. In *Selected Articles*; edited by Linda Koch. IAAI, 1992.
- ATF. Symposium on recent advances in arson analysis and detection. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- ASTM's E-30 committee on forensic sciences. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Bates, R.B. Fire investigations and reports. In *Selected Articles*, edited by Linda Koch, IAAI, 1992.
- Beland, B. Danger of fire associated with electrical thawing. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Beland, B. Fireplaces and chimneys as fire causes. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Beland, B. Some thoughts on fire investigations. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Beyer, J.H. Case in review: Applying charts to the fire scene. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Blum, F. Oil burner fires. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Bowen, J.E. Phenomenon of spontaneous ignition is still misunderstood by some. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Bradford, J.W. Arson-a review. In *Clinical Criminology*, edited by Mark H. Ben-Aron et al. N.p. 1985.
- Brugger, R.D. Short circuit by battery acid. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Brumbaugh, J.M. Arson, burglary, and kidnapping; problems of statutory construction. In *Criminal Law and Approaches to the Study of Law: Cases and Materials*, edited by John M. Brumbadgh. Westbury, NY: Foundation Press, 1991.
- Byron, M. Forensic and scientific testing. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Byron, M.M. Inadequate review of field data. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Canfield, D.V. Causes of spalling concrete at elevated temperatures. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Cold hands, bright snow, dead batteries: Challenges of cold-weather photography. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Cowan, J.D. Arc, beads and other electrical things. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Criminal and civil cases of interest (12/83). In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Criminal and civil cases of interest (6/83). In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Criminal and civil cases of interest (3/83). In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Criminal and civil cases of interest (3/84). In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

- Criminal and civil cases of interest (12/85). In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Criminal and civil cases of interest (12/84). In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Criminal and civil cases of interest (6/85). In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Delibert, A. Application of nuisance law to abandoned buildings and other major fire hazards. In *Neighborhood Bused Arson Control - Collected Papers*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1985.
- Delibert, A. Civil liability for arson fires- a primer for community activists. In *Neighborhood Bused Arson Control-Collected Paper*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1985.
- Delibert, A. Civil liability for arson fires - the case against the owners. In *Neighborhood Bused Arson Control - Collected Papers*, Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1985.
- A documented case of accelerant induced concrete spalling. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Ettling, B.V. Arc marks and gouges in wires and heating at gouges. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Ettling, B.V. Causes of blue flames. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Ettling, B.V. Electrical path through poor contacts. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Ettling, B.V. Glowing connections. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Extension cord hazards. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Fantigrossi, M. Emission control device catalytic converter. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Fire, F.L. Plastics and fire investigations. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Fisher, P.E., L.J. Hillenbrand, J.T. Suchy. Suggested approach to the arson information problem, December 14, 1977. In *Arson-for-Profit - Its Impact on States and Localities*, Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- Fogle, J. Circuit breakers do not always trip, fuses do not always blow. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Friedland, M., J. Murphy. Developing witness skills for arson control litigation. In *Neighborhood Bused Arson Control - Collected Papers*, Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1985.
- Gabel, M. Arson and RICO. In *Techniques in the Investigation and Prosecution of Organized Crime*, edited by Robert Blakey. N.p. 1980.
- Gamm, J.A. Defense vs. offense or the bad guys vs. the good guys, part 1. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Gamm, J.A. Defense vs. offense or the bad guys vs. the good guys, part 2..In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Gamm, J.A. Defense vs. offense or the bad guys vs. the good guys, part 3. In *Selected Articles*, edited by Linda Koch. IAAI, 1992
- Gamm, J. Defense vs. offense or the bad guys vs. the good guys, part 4. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- National problem of arson, April 28, 1977. In *Arson-for-Profit - Its Impact on States and Localities*. Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- Harmer, R.L., T.E. Nolan, R.D. Moss, R.N. Thaman. Liquid burn patterns on linoleum. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Henderson, R., G. Lightsey. Effect flame temperatures of flammable liquids. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Hicks, B. Locating prior insurance claims through public records. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Hine, R. Negotiating information exchange agreements with insurance companies. In *Neighborhood Bused Arson Control - Collected Papers*, Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1985.
- Hood, W.S. Methodology in fraud fire investigations. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Horbert, P. Proving inflated inventory when the financial records lie. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- International Association of Fire Chiefs. Arson - a crime that lost prominence, September 25-29, 1977. In *Arson-for-Profit - Its Impact on States and Localities*, Rockville, MD: National Institute of Justice/National

- Criminal Justice Reference Service Microfiche Program, 1978.
- Jones, J.E. Prepared statement of James E. Jones, Jr. In *Arson-for-Profit - its impact on states and localities*, N.p. 1978.
- Journal of American Insurance. There'll always be a con man - or will, there? In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Kaufman, I. Arson: From creation to destruction. In *The Victimology Handbook: Researchfindings, Treatment, and Public Library*, edited by Emilio Viano. New York: Garland Publishing, 1990.
- Keith, R.J., F.P. Smith. Analysis of char patterns known as alligatoring. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Ketcham, CC!., H.J. McGeorge. Terrorist violence-Its mechanics and countermeasures. In *Fighting Buck*, editor Neil C. Livingstone and Terrell E. Arnold. Lexington, MA: DC Heath and Company, 1986.
- Kramer, R.R. Estimating inventory using the gross profit method. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Lentini, J. Analytical scheme for detection of accelerant residues in fire debris. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Lentini, J. Antifreeze fire hazard. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Lewis, R.W. Communication and the cause determination. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Lewko, J. Camera techniques at fire scenes, part 1. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Lewko, J. Camera techniques at fire scenes, part 2. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Lincoln, S. Case in review-charcoal lighter fluid used as an arson accelerant. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Lucas, C. Plans to get more arson dogs. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- MacMillan, R. Case in review: Ignition sources believe it or not. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- McCamey, W.P., R.J. Fischer. Arson investigation: One means of preventing future fires. In *Critical Issues in Criminal Investigation, Second Edition*, edited by Michael J. Palmiotto. Cincinnati, OH: Anderson Publishing Company, 1988
- McKnight, J.B. How things burn: A burning question. In *Selected Articles*, edited by Linda Koch: IAAI, 1992.
- Meal, L. An alternative to gas chromatography in analysis of fire debris. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Meehan, J.J., P.D. Fry. Task force approach to fire investigations. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- More, stronger state laws needed to help curb arson. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Moss, R.D., C.A. Guinther; R.N. Thaman. Analysis of gasoline dye in fire debris samples by thin layer chromatography. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Murphy, J., M. Friedland. Community group assistance to criminal investigations, In *Neighborhood Based Arson Control - Collected Papers*, Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1985.
- National Association of Independent Insurers. Statement of the National Association of Independent Insurers Concerning S-1882. In *Arson-for-Profit - Its Impact on States and Localities*, Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.
- NFPA Fire facts. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- O'Connor, J.J. Police Arson Investigation. In *Criminal and Civil Investigation Handbook*, edited by Joseph J. Grau and Ben Jacobson. New York : McGraw-Hill, 1981.
- O'Donnell, J.F. Reference samples. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- O'Dowd, J.F. Arson or accident. In *Law Enforcement Bible*, edited by Robert A. Scanlon.
- Parish, C.W. Explosions and explosion investigators. In *Selected Articles*, edited by Linda Koch, IAAI, 1992.
- Petrovich, W. Unusual origin and cause of fires. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Phelps, J. Rules of evidence. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Posey, J.E., E.P. Posey. Using calcination of gypsum wallboard to reveal burn patterns. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Reiter, D.A. Fires in packaged heating/air conditioning units. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.
- Revelle, R. Combating arson in Seattle, December 5, 1977. In *Arson-for-Profit - Its Impact on States and Localities*, Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service Microfiche Program, 1978.

RICO, can a good law still have some bad side effects. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Roblee, CL. Hazards of charcoal briquets. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Roblee, C.L. Safety for fire investigators. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Schuman, K. Case in review: Completed information. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Seger, K.A. USFA-IAAI arson information management system, In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Smith, F., J. Mitchell. Concrete spalling under controlled conditions. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Smith, F.P. Gasoline detection in hardwood parquet flooring six days after total burnout. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Thompson, J.P. Laser technology as utilized in the line development of latent prints. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Thompson, V.A. Slides, prints or color negatives. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Truex, T. Vermont approach, a system born of compromise and based on cooperation. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

Tsaroom, S. Case in review. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.

United States of America, plaintiff-Appellee V. Robert Russell, defendant. In *Selected Articles* edited by Linda Koch. IAAI, 1992.

Werne, N. New York Law governing arson. In *Basic Course for Prosecutors XII*, Rockville, MD: National Institute of Justice/National Criminal Justice Reference Service M, 1982.

Weston, R. International trade frauds: Keeping the criminals at sea. In *Combating Commercial Crime*, edited by Rae Weston. Australia: Law Book Company, 1987.

Woodhouse, L.R. Nation's cities put the heat on arson. In *Selected Articles*, edited by Linda Koch. IAAI, 1992.